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ABSTRACT

Compiled are abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction as well as some materials related to pesticides, hazardous wastes, and public participation. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can use the Water Quality Instructional Resources Information System (IRIS) to locate instructional materials to meet very general or highly specific requirements in their programs. (DC)

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ED209104

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Columbus, Ohio 43212

Water

Water Quality Instructional Resources Information System

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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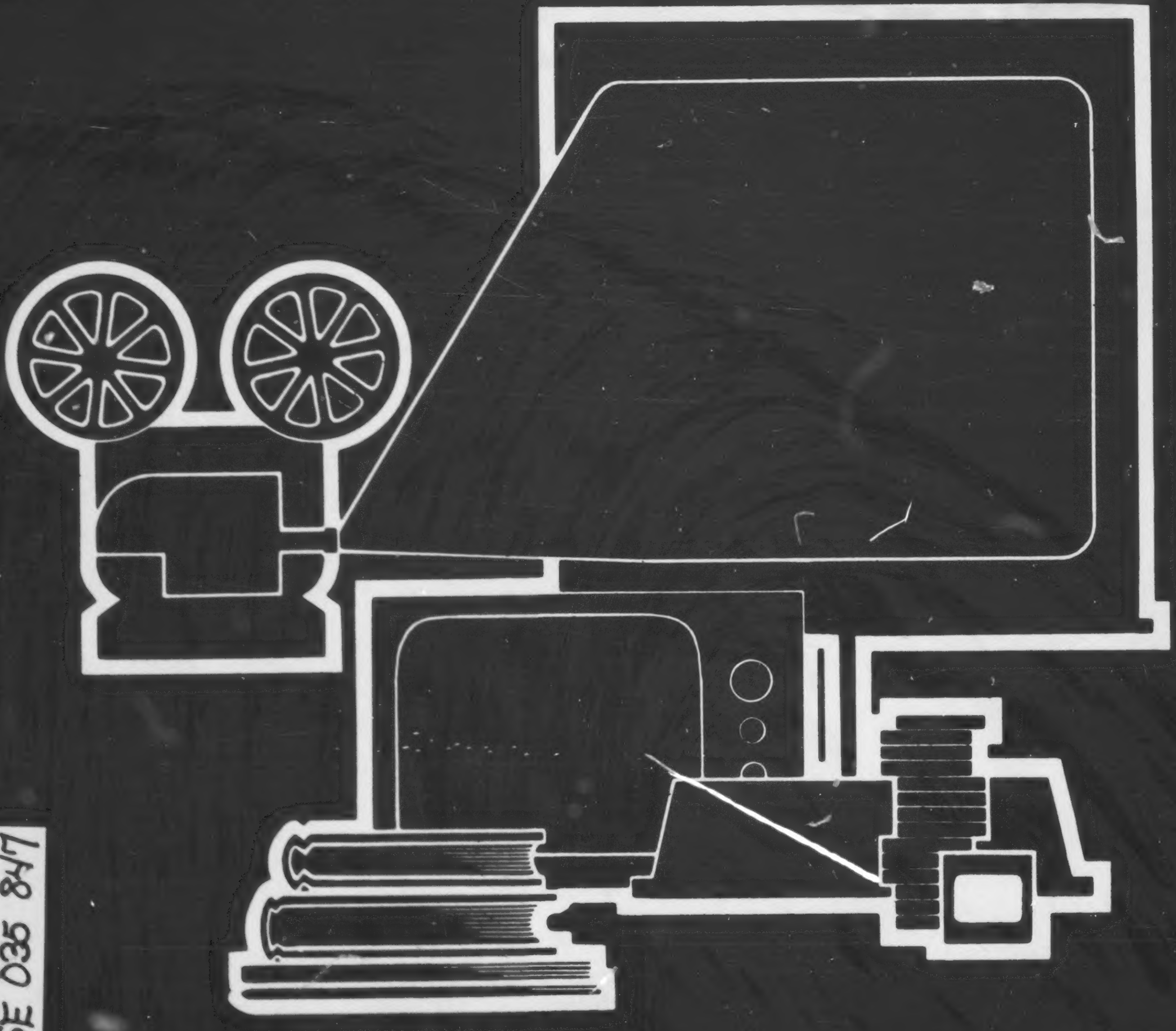

SE 035 847

Prepared by

EPA Information Dissemination Project
SMEAC Information Reference Center
1200 Chambers Road - 3rd Floor
Columbus, Ohio 43212

as part of
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WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement VI (1981)
June, 1981

National Training and Operational Technology Center
Office of Water Program Operations
U.S. Environmental Protection Agency
Cincinnati, Ohio 45268

June, 1981

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Telephone: (614) 422-6717

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Quarterly updates of the compilation are available by subscription on a yearly basis beginning November, 1979. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EPA Information Dissemination Project. A subscription to the quarterly supplements for 1979-80 is $12.00 (within the U.S.). Price to Canada is $14.00. Prices in other countries is $20.00. Separate quarterly supplements are $4.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched by both batch and on-line computer searches. The IRIS tapes are available for purchase from the SMEAC Information Reference Center. In addition, the IRIS tapes are available for searching through the Bibliographic Retrieval Services, Inc., (BRS) and with Dialog. Any search service that currently subscribes to BRS or Dialog is able to search the IRIS data base by on-line techniques. Individuals or agencies with computer terminals and telephone connection equipment can subscribe to BRS or Dialog and do their own searches if they desire.

Information regarding BRS may be obtained by writing or phoning BRS, Corporation Park, Building 702, Scotia, NY 12302, (518) 374-5011.

Information regarding Dialog may be obtained by writing or phoning Dialog Information Retrieval Service, 3460 Hillview Avenue, Palo Alto, CA 94304, (415) 858-3775.

Plans are being made to mount IRIS tapes with other on-line vendors. Information regarding this service will be announced in a future EPA IRC Bulletin and in mailings from the EPA Information Dissemination Project.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
202-783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not contact the EPA Information Dissemination Project for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but most users of the tapes gain access

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The EPA Information Dissemination Project (water) acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the EPA Information Dissemination Project is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the material is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this compilation, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EPA Information Dissemination Project at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) Collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of this compilation and similar ones to follow and (2) by computer.

The first compilation contained resumes of selected materials processed for the previous IRIS (water) collection and resumes of selected materials of items added to the IRIS (water) collection. A limited number of copies of the compilation in paper copy and microfiche are available free of charge as long as the supply lasts from the EPA Information Dissemination Project. After the free copies of the compilations are gone, copies will be available for purchase from the EPA Information Dissemination Project.

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered in ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

a. IRIS NUMBER: EW 006 023
b. PUBLICATION DATE: FEB 81
c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
d. PERSONAL AUTHOR: SPENCER, GEORGE R., JR.
e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES

f. DESCRIPTIVE NOTE: 30-33P.
g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

h. AVAILABILITY: POLLUTION ENGINEERING, V13 N2

a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

b. PUBLICATION DATE -- date material was published according to information on the material.

c. TITLE

d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceeded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed.

to them through three major database vendors, Lockheed (Dialog), Systems Development Corporation (Orbit), and Bibliographic Retrieval Services. For the addresses of search services in your state that can search these databases, contact the:

EPA Information Dissemination Project
1200 Chambers Rd., Room 310
Columbus, Ohio 43212
(614) 422-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EPA Information Dissemination Project for 3¢ per page + $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EPA Information Dissemination Project.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
3930 East Camelback Road
Phoenix, Arizona 85018
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. Current prices are $6.00 for articles published before January 1976 and $4.00 for articles published after January 1976. For further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(313) 761-4700

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can also be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
P.O. Box 190
Arlington, Virginia 22210

Telephone: 703-841-1212

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EPA Information Dissemination Project.

c. ISSUE -- this indicates the monthly issue of Resources in Education in which the resume appeared.

d. INSTITUTION NAME -- organization where document originated.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index, Author Index, Institution Index, or Title Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to laboratory techniques and to wastewater treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained and the price of the material quoted the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

2. Sample resume of material entered into ERIC (Resources in Education)

Item entered into ERIC (Resources in Education) will have a few additional data fields.

IRIS NUMBER: EW002998
a. ERIC NUMBER: ED151236
PUBLICATION DATE: SEP 77
TITLE: CHLORINATION. TRAINING MODULE 2.300.2.77.
INSTITUTION CODE: BBB08399
SPONSORING AGENCY CODE: BBB15379; FGK21436
DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINATION; *WASTE WATER TREATMENT; WATER TREATMENT
b. EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE
DESCRIPTIVE NOTE: 60P. FOR RELATED DOCUMENTS, SEE SE 024 025-046
c. ISSUE: RIEJUL78
ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CHLORINE. THE REASONS FOR CHLORINATION AND SAFE OPERATION AND MAINTENANCE OF GAS CHLORINE, DRY CALCIUM HYPOCHLORITE AND LIQUID SODIUM HYPOCHLORITE CHLORINATION SYSTEMS FOR WATER SUPPLY AND WASTEWATER TREATMENT FACILITIES ARE GIVEN. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES OF CHLORINATION, PROPERTIES OF CHLORINE, METHODS OF CHLORINATION, SAFETY, MAINTENANCE OF CHLORINATION UNITS AND INTERPRETATION OF TEST RESULTS. (AUTHOR/RH)
d. INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.
SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about six times a year as information is available.

If you are not on the mailing list write to the EPA Information Dissemination Project. Limited numbers of some back issues are still available.

If you need information about IRIS you can also phone (614) 422-6717 with your questions.

V. Requests for Assistance in Using IRIS

A. Assistance in use of IRIS manuals

If you need help in using the IRIS manuals phone (614) 422-6717 or write to the EPA Information Dissemination Project. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

B. Assistance in accessing IRIS by computer

1. Conducting searches.

   See section VIII.

2. Subscribing to BRS, Inc. for computer searching of IRIS

   Contact: Bibliographic Retrieval Services, Inc.
   Corporation Park, Building 702
   Scotia, New York 12302
   (518) 374-5011

3. Subscribing to Dialog for computer searching of IRIS

   Contact: Dialog Information Retrieval Service
   3460 Hillview Avenue
   Palo Alto, CA 94304
   (415) 858-3775

4. Contacting a computer search service (an agency that will conduct a search for you, usually for a fee).

   The EPA Information Dissemination Project maintains a list of agencies that can conduct searches. Most charge a fee, though some are free to qualified users in a limited geographical area.

   Phone or write to obtain information for your area.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EPA Information Dissemination Project plans to develop some user service products in selected areas in 1981.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence they are not listed in this index.

3. Title Index to the IRIS Compilation (Not included in the compilation)

The Title Index to the IRIS Compilation is a separate document. It is available from the EPA Information Project for $5.00 prepaid or $5.00 plus postage if invoiced. Supplements will be available on an annual basis for $5.00 beginning in January, 1981.

The Title Index contains all titles in the compilation listed in alphabetical order. If you are searching for material and know the title, you can check the title list to determine if the item is in the IRIS data base. Each title includes the IRIS resume number. The number can be found in the resume section of the compilation.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EPA Information Dissemination Project
1200 Chambers Road, Rm. 310
Columbus, OH 43212
(614) 422-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the souces to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

C. ERIC Clearinghouse on Elementary & Early Childhood Education
University of Illinois
College of Education
1310 South Sixth Street
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research, and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon, Library, Room 108
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, goverance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
Ohio State University
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabiliation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
2108 School of Education
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings,theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics, and Environmental Education
Ohio State University
1200 Chambers Road, Third Floor
Columbus, Ohio 43212
Telephone: (614) 422-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
855 Broadway
Boulder, Colorado 80302
Telephone: (303) 492-8434

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education
One Dupont Circle, Suite 610
Washington, DC 20036
Telephone: (202) 293-2450

School personnel at all levels; all issues from selection through preservice and inservice preparation and training to retirement; curricula; educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service
Rosedale Road
Princeton, New Jersey 08540
Telephone: (609) 921-9000 ext. 2176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects or programs.

G. ERIC Clearinghouse on Information Resources

Syracuse University
School of Education
130 Huntington Hall
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges

University of California
96 Powell Library Building
405 Hilgard Avenue
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linquistics

Center for Applied Linquistics
3520 Prospect Street, N.W.
Washington, DC 20007
Telephone: (202) 298-9292

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English for speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills

National Council of Teachers of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

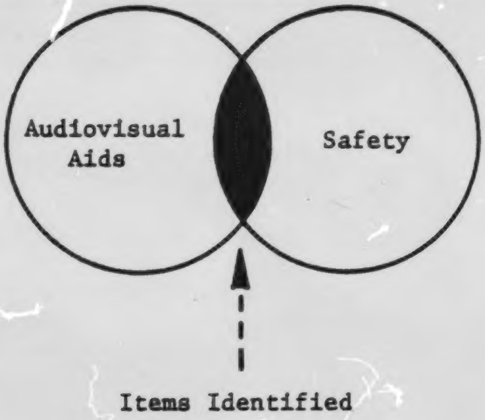
Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

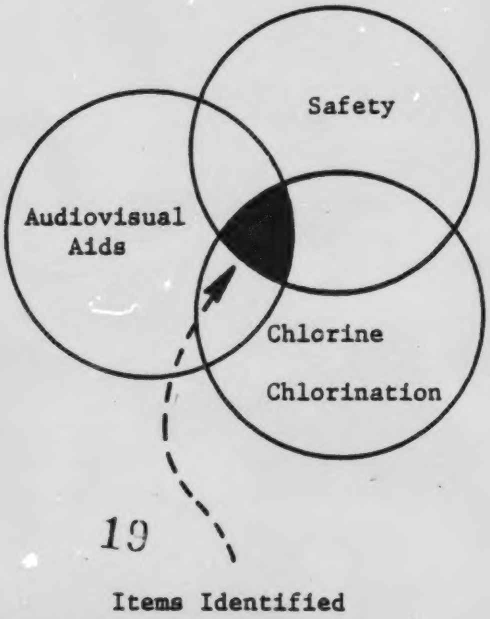
Several sample searches are listed.

A. Sample 1

If you want to locate audiovisual aids that relate to safety you would submit a search with audiovisual aids and safety. Materials that included the terms both audiovisual aids and safety in the title field, the abstract, and the subject index field would be identified by the computer.


Audiovisual Aids
Safety
Items Identified

The computer program can tell you the number of items, the title of the items, or print the entire resume of each item. If you were primarily interested in audiovisual aids, safety, and chlorine you would submit a search of these three terms. You might want to include chlorides and chlorination as well as chlorine in the search. This search would identify materials that contained audiovisual aids, safety, and one or more of the words, chlorine, and chlorination.


Safety
Audiovisual Aids
Chlorine
Chlorination
Items Identified

P. ERIC Clearinghouse on Urban Education
Box 40
Teachers College, Columbia University
525 W. 120th Street
New York, New York 10027
Telephone: (212) 678-3437

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences); education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics; structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Central ERIC
National Institute of Education
1200 19th Street, N.W.
Washington, DC 20208
Telephone: (202) 254-5555

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Structure a Computer Search of IRIS

This explanation relates to the IRIS data base that can be searched on-line through Bibliographic Retrieval Services, Inc. As IRIS becomes available through other sources, information relevant to those services will be provided.

A few notes about the service are important. The following fields are searchable by computer: (1) IRIS Accession Number (EW number), (2) ERIC Accession Number (ED number), (3) Authors, (4) Institution (5) Title, (6) subject index terms, and (7) abstract.

If you submit a search of IRIS through BRS, the program will search for the words you select in three fields unless the searcher requests to limit the search. These fields are: (1) the title field, (2) the subject index field, and (3) the abstract. We recommend you use this feature especially for searches on specific terms. If you find more material than you want by this technique you can narrow the search to items that may have the most information on the topic by limiting the search to the subject index field.

The subject index can also be used to help you select words to include in a search. Words listed in the subject index are certain to be in the searchable fields. Therefore, selecting these terms to use in structuring a search will increase the probability of locating materials. Some words will appear in the title or abstract that are not included in the subject term field. Such words can be used to check if any materials are in the data base. If, however, you conduct a search with such a word it is usually best to include a synonym that is in the subject index.

VIII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on loan from the EPA National Training and Operational Technology Center, Cincinnati, Ohio 45268. They also offer a copy service to reproduce materials at a very reasonable price.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
P. O. Box 190
Arlington, Virginia 22210
(703) 841-1212

C. The EPA Information Dissemination Project will provide xerox copies of materials that are not copyrighted for $1.00 per document plus $0.03 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EPA Information Dissemination Project. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

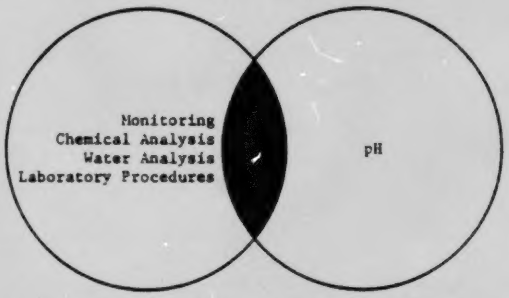
IX. USEPA
National Training and Operation Technology Center
Cincinnati, Ohio 45268

To fulfill national educational and training requirements, USEPA has organized the National Training and Operational Technology Center (NTOTC). NTOTC has the responsibility for planning, developing, conducting and evaluating USEPA's water pollution control training and education program. As an instructional resource, its purpose is to help regions, states, local governments and educational institutions to become knowledgeable about USEPA's goals, regulations, strategies, as well as the implications of USEPA programs which affect virtually everyone.

Activities encompass three categories: (1) instruction; (2) course development; and (3) information management.

B. Sample 2

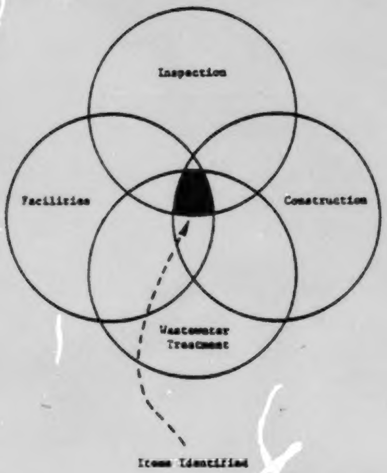
If you want to identify materials related to monitoring, you should include several related terms and the chemical, material, or situation that is being monitored. See the example below.


Monitoring
Chemical Analysis
Water Analysis
Laboratory Procedures
pH

This search would identify all the items that included any of the terms on the left and pH.

C. Sample 3

If you are interested in materials related to inspection and construction you could conduct a search of these two terms. The search would identify all materials that included both terms. If you were interested in only wastewater treatment facilities you could construct a search as diagrammed.


Inspection
Facilities
Construction
Wastewater Treatment
Items Identified

This search would yield specific materials and demonstrates how a computer search can help you locate materials you want.

D. Use of the Subject Index

The subject index in the back of the compilation can be used to help you decide if you want to do a computer search. If there are relatively few entries, you can check the resumes in the resume section. If there is a large number of entries (perhaps 50 or more) you may want to use a computer search.

As the data base gets larger, you will find more entries for subject index terms and computer searching will offer more advantages.

Information Management--The goal of USEPA's information management system is to support, in a comprehensive and systematic manner, those involved with pollution control education and training. A central location within the NTOTC facility is designed to provide a contact point and to coordinate assistance efforts and has been designated the Instructional Resources Center (IRC).

As the education and training community has become more aware of the types of programs operated by the IRC, requests for information have expanded dramatically. Many requests for assistance from instructors, information specialists, municipal water and wastewater treatment plant trainers, and representatives of government and business have been received.

Through the IRC, NTOTC maintains a central location to inventory, evaluate, catalog and disseminate instructional materials in the areas of water pollution control, water supply, and pesticides. Composed of several different but interrelated activities, it acts as a primary communications link between USEPA and educators at all post-secondary levels.

The IRC includes an audiovisual lending library housing slide/tape presentations, films and videotapes, all available for free, short-term loan. Most subject areas available are water quality-oriented.

Interested persons are invited to Cincinnati to use IRC facilities for reviewing tapes, slides, films, and other materials before deciding about purchases or curriculum development requirements. IRC staff assist visitors by determining the most appropriate ways to use the Center's resources, or in determining educational and training program requirements and available resources. During the past year, universities and state and local governments have been assisted with curriculum design, course materials selection, and audiovisual support efforts.

For more information on NTOTC write to the center at the following address:

National Training and Operational
Technology Center (NTOTC)
26 West St. Clair
Cincinnati, Ohio 45268

Telephone: (513) 684-7501

Instruction--NTOTC offers a variety of training courses in water quality control. Such courses are taught at many locations, but most are presented at the Environmental Research Center in Cincinnati, Ohio. A current project will expand this effort to enable more environmental personnel to receive specialized instruction. Area training centers will soon act as satellites to the NTOTC program, offering similar courses and instructional support. Select universities with broad pollution control curricula will act as area training centers within a region. As a result, more pollution control personnel will have access to needed specialized training.

Since 1971, the NTOTC professional staff of chemists, biologists and engineers has presented nearly 350 courses to more than 8,000 students. Courses are offered throughout the year, and are designed to help participants understand current pollution control techniques and procedures. As USEPA regulations and policies are implemented, based in large part on USEPA research, courses are offered by NTOTC staff to upgrade knowledge and develop specific skills or procedures.

Some courses are conducted at wastewater treatment plants, enabling USEPA to work directly with plant personnel to improve treatment plant effluent. While working on site at treatment plants, staff can diagnose and discuss particular problems and can provide information on design and operation to many technicians within the local region.

Courses currently are offered in five general categories: wastewater treatment technology, treatment facility evaluation and inspection, water quality surveillance and monitoring, water quality analysis, and drinking water quality monitoring.

Students attend courses from all states, and from some foreign countries. The largest percentage represent federal, state, and municipal pollution control agencies. A relatively small number of college and university instructors attend these short courses which are typically one week in length. USEPA encourages more participation by the educational community, so that current skills and knowledge will be transmitted to students to enable them to deal with pollution control problems as they enter environmental occupations. Community college and university instructors may attend courses free of charge by following prescribed application procedures.

Course Development--NTOTC is active in the field of course development. As new educational and training needs are identified, appropriate instructional packages are developed. Almost all such development is based on current research and agency regulations. Materials include instructor guides, student manuals and supporting audiovisual materials. If USEPA's pollution control training programs are to be successfully implemented, college and university staff from various departments must cooperate and integrate these instructional activities within their curriculums; or students will not be adequately prepared, either theoretically or practically.

RESUME SECTION

IRIS ACCESSION NUMBER: EW000412

TITLE: WATER TREATMENT - A CENTURY OF PROGRESS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *HISTORY; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL FILMS; *MUNICIPALITIES; NATURAL RESOURCES; *OPERATIONS (WATER); *PUBLIC HEALTH; *TECHNOLOGY; *UTILITIES; *WATER RESOURCES; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: FREE RENTAL

ABSTRACT: THIS FILM PRESENTS AN HISTORICAL VIEW OF THE DEVELOPMENT OF WATER TREATMENT SYSTEMS IN THE UNITED STATES. THE TECHNOLOGICAL ADVANCEMENTS AND RESPONSE TO PUBLIC HEALTH NEEDS ARE EMPHASIZED IN RELATION TO CHANGING FEDERAL, STATE, AND LOCAL REGULATIONS. A VARIETY OF TREATMENT PROCESSES, INCLUDING CHLORINATION AND FLUORIDATION, ARE DISCUSSED.

AVAILABILITY: BIF - A UNIT OF GENERAL SIGNAL, P. O. BOX 217, W. WARWICK, RI 02893

IRIS ACCESSION NUMBER: EW000502

TITLE: EXTENSION PEST MANAGEMENT PILOT PROJECTS--AN EVALUATION.

PERSONAL AUTHOR: BLAIR, B. D.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; CROPS; ENVIRONMENTAL INFLUENCES; ENTOMOLOGY; *EVALUATION; *INTEGRATED PEST MANAGEMENT; *MANAGEMENT; *PESTS; *PILOT PROJECTS; PESTICIDES; RESEARCH; WEEDS

ABSTRACT: THIS DOCUMENT REPORTS THE FINDINGS OF A STUDY TO EVALUATE THE ACCOMPLISHMENTS, OPERATIONS, AND PROCEDURES UTILIZED IN EXTENSION SERVICE INTEGRATED PEST MANAGEMENT PROJECTS. PROJECTS STUDIED INCLUDED THOSE INVOLVING ALFALFA, CORN, COTTON, SORGHUM, TOBACCO, AND PEANUTS. A LIST OF PILOT PROJECTS AND THE QUESTIONNAIRE USED IN THE STUDY ARE INCLUDED IN THE APPENDICES.

AVAILABILITY: U. S. DEPARTMENT OF AGRICULTURE, COOPERATIVE EXTENSION WORK, WASHINGTON, DC 20250

IRIS ACCESSION NUMBER: EW001664

PUBLICATION DATE: 73

TITLE: FINANCING AND CHARGES FOR WASTEWATER SYSTEMS.

DESCRIPTOR: *ACCOUNTING; *BUDGETS; COLLECTION SYSTEMS; *COSTS; ECONOMICS; *FINANCING; LAWS; REQULATIONS; RECORDS; REVENUE REQUIREMENTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $4.00

ABSTRACT: COVERS THE FINANCING OF AND ESTABLISHMENT OF CHARGES FOR SEWER SYSTEMS AND ALSO DISCUSSES ORGANIZATIONAL ARRANGEMENTS FOR PROVIDING COLLECTION SERVICES, FAIR ALLOCATION OF RENEWAL REQUIREMENTS, AND RECENT PRACTICES IN RAISING ANNUAL REVENUE REQUIREMENTS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, DC 20016

IRIS ACCESSION NUMBER: EW002048

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL SCIENCE.

PERSONAL AUTHOR: TURK, A; AND OTHERS

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *ECOLOGY; *ECONOMICS; *INSTRUCTIONAL MATERIALS; *POLICY; *POST SECONDARY EDUCATION; *SCIENCES; *TEXTBOOKS

DESCRIPTIVE NOTE: 563P. PRICE: $15.95

ABSTRACT: PREPARES THE STUDENT FOR THE ECOLOGICAL PROBLEMS FACING TOMORROW'S WORLD. SOCIAL AND ECONOMIC ISSUES IN ENVIRONMENTAL STUDIES ARE INTEGRATED UNDER EACH SEPARATE TOPIC, AND THE FINAL CHAPTER PRESENTS A COMPLETE OVERVIEW OF THIS NATION'S AND THE WORLD'S ECONOMIC AND SOCIAL POLICY.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002049

PUBLICATION DATE: 75

TITLE: ECOSYSTEMS, ENERGY, AND POPULATION.

PERSONAL AUTHOR: TURK, J.; AND OTHERS

DESCRIPTOR: AGRICULTURE; *ENVIRONMENTAL EDUCATION; *ECOLOGY; *ENERGY; ECONOMICS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *POPULATION

DESCRIPTIVE NOTE: 296P. PRICE: $9.95

ABSTRACT: PROVIDES AN INTRODUCTION TO A BROADER KNOWLEDGE OF THE BIOLOGICAL IMPLICATIONS AND ASPECTS OF ENVIRONMENTAL SCIENCE. COVERS NATURAL ECOLOGY PLUS EXAMINING HUMAN POPULATION GROWTH, ENERGY, AND AGRICULTURE. SOCIAL AND ECONOMIC ISSUES IN ENVIRONMENTAL STUDIES ARE INTERGRATED WITHIN EACH CHAPTER.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002050
PUBLICATION DATE: 72

TITLE: ECOLOGY, POLLUTION, AND ENVIRONMENT.

PERSONAL AUTHOR: TURK, A.; AND OTHERS

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *NOISE POLLUTION; *POLLUTION; *POST SECONDARY EDUCATION; *PESTICIDES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 217P. PRICE: $6.50

ABSTRACT: PROVIDES A GENERAL INTRODUCTION TO ENVIRONMENTAL SCIENCE. DISCUSSES ALL ASPECTS OF POLLUTION FROM PESTICIDES TO NOISE. BACKGROUND MATERIAL IN THE PHYSICAL SCIENCES IS PRESENTED WHEREVER NEEDED. SCIENTIFIC QUESTIONS AND SOCIO-POLITICAL ISSUES ARE DISCUSSED.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002051

PUBLICATION DATE: APR 75

TITLE: SCIENCE, TECHNOLOGY, AND THE ENVIRONMENT.

PERSONAL AUTHOR: HARDY, J. T.

DESCRIPTOR: BIOLOGICAL SCIENCES; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PHYSICAL SCIENCES; PSYCHOLOGY; *RESOURCE MANAGEMENT; *SCIENCES; *TECHNOLOGY

DESCRIPTIVE NOTE: 329P. PRICE: $10.95

ABSTRACT: UTILIZES AN INTERDISCIPLINARY APPROACH IN EXAMINING CONTEMPORARY TOPICS IN SCIENCE AND TECHNOLOGY. TECHNICAL MATERIAL IS COVERED FIRST, THEN THE SOCIAL CONSEQUENCES ARE EXAMINED. TOPICS ARE SELECTED FROM THE PHYSICAL, BIOLOGICAL, PSYCHOLOGICAL AND ENVIRONMENTAL SCIENCES.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002052

PUBLICATION DATE: MAR 75

TITLE: SCIENCE, MAN, AND SOCIETY.

PERSONAL AUTHOR: FISCHER, R. B.

DESCRIPTOR: AIR POLLUTION CONTROL; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *SCIENCES; *SOCIETY; *TECHNOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 208P. PRICE: $6.95
ABSTRACT: DEFINES "SCIENCE" IN CLEAR LANGUAGE; EXPLAINS THE SCIENTIFIC METHOD, AND DEMONSTRATES THE RELATIONSHIP BETWEEN SCIENCE AND TECHNOLOGY. THE READER DISCOVERS HOW SCIENCE AND TECHNOLOGY HAVE SHAPED TODAY'S SOCIETY, HOW KNOWLEDGE GAINED IN THE LABORATORY CAN SOLVE MANY CURRENT SOCIAL AND MORAL PROBLEMS (INCLUDING AIR AND WATER POLLUTION), AND WHAT THE RELEVANCE OF SCIENCE IS TO THE READER'S DAILY LIFE. THIS REVISED EDITION COVERS MATERIAL ON BASIC AND APPLIED SCIENCE, AND THE CLASSIFICATION OF SCIENTIFIC DISCIPLINES.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002053

PUBLICATION DATE: JUL 71

TITLE: FUNDAMENTALS OF ECOLOGY.

PERSONAL AUTHOR: ODUM, E. P.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SCIENCES; *TECHNOLOGY

DESCRIPTIVE NOTE: 574P. PRICE: $16.95

ABSTRACT: REVIEWS THE PRINCIPLES OF ECOLOGY, WORLD ENVIRONMENTS, AND ECOLOGICAL TECHNOLOGY.

AVAILABILITY: W. B. SAUNDERS CO., WEST WASHINGTON SQ., PHILADELPHIA, PA 19105

IRIS ACCESSION NUMBER: EW002080

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR GRANULAR ACTIVATED CARBON.

DESCRIPTOR: *ACTIVATED CARBON; *ADSORPTION; *FILTRATION; *INDUSTRY; OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT; WATER SUPPLY

DESCRIPTIVE NOTE: 28P. PRICE: $4.00

ABSTRACT: COVERS GRANULAR ACTIVATED CARBON FOR USE AS AN ADSORPTION MEDIA IN THE TREATMENT OF MUNICIPAL INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW002081

PUBLICATION DATE: 77

TITLE: AMERICAN NATIONAL STANDARD FOR POLYETHYLENE

ENCASEMENT FOR GRAY & DUCTILE CAST IRON PIPING FOR WATER, (1977 REVISION).

DESCRIPTOR: *CAST IRON PIPES; *DUCTILE IRON PIPES; IRON PIPES; *PIPES; *PIPE LININGS; *STANDARDS; VALVES

DESCRIPTIVE NOTE: 16P. PRICE: $3.00

ABSTRACT: COVERS MATERIAL AND INSTALLATION PROCEDURES FOR POLYETHYLENE ENCASEMENT TO BE APPLIED TO UNDERGROUND INSTALLATIONS OF GRAY AND DUCTILE CAST-IRON PIPE. ALSO MAY BE USED FOR POLYETHYLENE ENCASEMENT OF FITTINGS, VALVES, AND OTHER APPURTENANCES TO GRAY AND DUCTILE CAST-IRON PIPE SYSTEMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002082

PUBLICATION DATE: 73

TITLE: AWWA STANDARD FOR BALL VALVES SHAFT OR TRUNNION MOUNTED 6-48 IN FOR WATER PRESSURES TO 300 PSI.

DESCRIPTOR: *BALL VALVES; OPERATIONS (WATER); *STANDARDS; *VALVES; *WATER SUPPLY

DESCRIPTIVE NOTE: 16P. PRICE: $3.00

ABSTRACT: COVERS CAST-IRON, DUCTILE-IRON, AND CAST-STEEL, FLANGED-END, TIGHT SHUT-OFF, SHAFT-OR TRUNNION-MOUNTED, FULL PORT, DOUBLE-AND SINGLE-SEATED BALL VALVES FOR PRESSURES UP TO 300 PSI IN SIZES FROM 6 IN. THROUGH 48 IN. DIAMETER FOR USE IN WATER SYSTEMS HAVING FRESH WATER WITH A PH GREATER THAN 6 AND TEMPERATURES GENERALLY LESS THAN 125 DEGREES F.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002086

PUBLICATION DATE: SEP 74

TITLE: HANDBOOK OF OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR WATER UTILITIES.

DESCRIPTOR: *HEALTH; LAWS; MANUALS; OPERATIONS (WATER); *OSHA; REGULATIONS; *SAFETY; *STANDARDS; *WATER UTILITIES

DESCRIPTIVE NOTE: 284P. PRICE: $25.00

ABSTRACT: HIGHLIGHTS OSHA REQUIREMENTS FOR WATER UTILITIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002090

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR ENCODER TYPE REMOTE REGISTRATION SYSTEMS FOR COLD WATER METERS.

DESCRIPTOR: *INSTRUMENTATION; *OPERATIONS (WATER); *STANDARDS; *WATER METERS; *WATER SUPPLY

DESCRIPTIVE NOTE: 12P. PRICE: $3.00

ABSTRACT: COVERS ENCODER TYPE REMOTE REGISTRATION SYSTEMS FOR USE ON COLD WATER METERS FOR WATER WORKS CUSTOMER SERVICE AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION AND ASSEMBLY.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002091

PUBLICATION DATE: 76

TITLE: AWWA STANDARD FOR COLD WATER METERS MULTI JET TYPE FOR CUSTOMER SERVICE.

DESCRIPTOR: EQUIPMENT; *INSTRUMENTATION; *OPERATIONS (WATER); *STANDARDS; *WATER METERS; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $3.00

ABSTRACT: COVERS THE VARIOUS TYPES AND CLASSES OF COLD-WATER MULTI-JET METERS IN SIZES 5/8 THROUGH 2 IN. FOR WATER-WORKS CUSTOMER SERVICE, AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION. THESE METERS REGISTER BY RECORDING THE REVOLUTIONS OF A ROTOR SET IN MOTION BY THE FORCE OF FLOWING WATER STRIKING THE BLADES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002092

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR POLY VINYL CHLORIDE PVC PRESSURE PIPE 4 INCH THROUGH 12 INCH FOR WATER.

DESCRIPTOR: OPERATIONS (WATER); *PIPES; *PLASTIC PIPES; *STANDARDS; WATER PIPES; *WATER SUPPLY

DESCRIPTIVE NOTE: 24P. PRICE: $4.00

ABSTRACT: COVERS 4 INCH THROUGH 12 INCH PVC 1120 PRESSURE PIPE MADE FROM CLASS 12454-B MATERIAL AND CONFORMING WITH THE OUTSIDE-DIAMETER DIMENSIONS OF STEEL PIPE (IPS) OR CAST-IRON PIPE AND WITH THE WALL THICKNESS OF DR SERIES 14, 18, OR 25.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002093

PUBLICATION DATE: 75

TITLE: AMERICAN NATIONAL STANDARD FOR FLANGED CAST IRON AND DUCTILE IRON PIPE WITH THREADED FLANGES.

DESCRIPTOR: *CAST IRON PIPES; *DUCTILE IRON PIPES; *FLANGED PIPES; IRON PIPES; *PIPES; *STANDARDS; *WATER SUPPLY

DESCRIPTIVE NOTE: 12P. PRICE: $3.00

ABSTRACT: COVERS 3-48 INCH GRAY-IRON AND 3-54 INCH DUCTILE-IRON FLANGED PIPE WITH THREADED FLANGES FOR WATER OR OTHER LIQUIDS. THE FLANGED PIPES ARE RATED FOR A MAXIMUM WORKING PRESSURE OF EITHER 150 OR 250 PSI AS SPECIFIED IN THE TABLES. ALL FLANGES ARE RATED FOR A MAXIMUM WORKING PRESSURE OF 250 PSI.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002173

PUBLICATION DATE: 75

TITLE: SIZING WATER SERVICE LINES AND METERS.

DESCRIPTOR: *DESIGN; *INSTRUCTIONAL MATERIALS; OPERATIONS (WATER); *PIPES; *POST SECONDARY EDUCATION; SURVEYS; *WATER DISTRIBUTION; *WATER METERS; *WATER RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: 112P. PRICE: $8.00

ABSTRACT: BASED ON DATA TAKEN FROM FIELD EXPERIMENTS, UTILITY SURVEYS, TECHNICAL PUBLICATIONS, AND HYDRAULIC DESIGN METHODS. EXPLAINS CUSTOMER DEMAND, HOW TO DETERMINE MAXIMUM FLOWS, AND THE DESIGN OF SERVICE FROM THE MAIN TO THE METER OUTLET.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002174

PUBLICATION DATE: 76

TITLE: EMERGENCY HANDBOOK: HAZARDOUS MATERIALS SPILLS.

DESCRIPTOR: ACCIDENT PREVENTION; CHEMICALS; *EMERGENCY OPERATIONS; *HAZARDOUS MATERIALS; *INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; *SAFETY; *SPILLS

DESCRIPTIVE NOTE: 52P. PRICE: $10.00

ABSTRACT: CONTAINS INTRODUCTIONS AND SELF-SURVEYS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002175

PUBLICATION DATE: JUN 75

TITLE: REUSE.

DESCRIPTOR: *OPERATIONS (WATER); *RECYCLING; *SEMINARS; *WATER REUSE; *WATER QUALITY

DESCRIPTIVE NOTE: 40P. PRICE: $4.00

ABSTRACT: AN ASSEMBLAGE OF FIVE DATA-FILLED REPORTS AS PRESENTED AT AN AWWA SEMINAR ON JUNE 8, 1975.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002176

PUBLICATION DATE: JUN 75

TITLE: TASTE AND ODOR.

DESCRIPTOR: *ODOR; *SEMINARS; *TASTE; *WATER CHARACTERISTICS; *WATER QUALITY

DESCRIPTIVE NOTE: 32P. PRICE: $4.00

ABSTRACT: A COMPILATION OF FOUR PRESENTATIONS OF AN AWWA SEMINAR ON JUNE 8, 1975.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW002281
PUBLICATION DATE: 71

TITLE: POLLUTION: A SELECTED BIBLIOGRAPHY OF UNITED STATES GOVERNMENT PUBLICATIONS ON AIR, WATER, AND LAND POLLUTION.

PERSONAL AUTHOR: KIRALDI, L.; AND OTHERS

DESCRIPTOR: *AIR POLLUTION; *BIBLIOGRAPHIES; *ENVIRONMENT; INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; RESEARCH; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: PRICE: $5.00

ABSTRACT: AN ENVIRONMENTAL BIBLIOGRAPHY.

AVAILABILITY: WESTERN MICHIGAN UNIVERSITY, INSTITUTE OF PUBLIC AFFAIRS, KALAMAZOO, MI 49001

IRIS ACCESSION NUMBER: EW002282

PUBLICATION DATE: 76

TITLE: PRINCIPLES OF FLOW.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CALCULATIONS; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; OPERATIONS (WATER); *POST SECONDARY EDUCATION; *SLIDES

DESCRIPTIVE NOTE: PRICE: $143.00, 35MM SLIDES, AUDIO CASSETTE

ABSTRACT: INTRODUCES THE FUNDAMENTAL PHYSICAL PRINCIPLES UPON WHICH THE OPERATION OF INDUSTRIAL PROCESS INSTRUMENTATION IS BASED. THE COMMON UNITS OF MEASUREMENT AND DEFINITIONS OF THE TERMS EMPLOYED ARE COVERED. COVERS: FLOW AS AN IMPORTANT PROCESS VARIABLE, RATE OF FLOW; BERNOULLI'S PRINCIPLE; CHANGES IN PRESSURE AND VELOCITY OF FLOW; LAMINAR FLOW; REYNOLD'S NUMBER; TURBULENT FLOW; AND PRESSURE LOSS.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002283

PUBLICATION DATE: 76

TITLE: PRINCIPLES OF TEMPERATURE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *HEAT TRANSFER; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; *POST SECONDARY EDUCATION; *SLIDES; *TEMPERATURE; THERMOMETERS

DESCRIPTIVE NOTE: PRICE: $165.00, 35 MM SLIDES, AUDIO CASSETTE

ABSTRACT: INTRODUCES THE FUNDAMENTAL PHYSICAL PRINCIPLES UPON WHICH THE OPERATION OF INDUSTRIAL PROCESS INSTRUMENTATION IS BASED. THE COMMON UNITS OF MEASUREMENT AND DEFINITIONS OF THE TERMS EMPLOYED ARE COVERED. INCLUDES: TEMPERATURE AND HEAT; HEAT TRANSFER; TEMPERATURE SCALES; UNITS OF HEAT; TEMPERATURE MEASUREMENT; SPECIFIC HEAT; EXPANSION AND CONTRACTION; TEMPERATURE AND ELECTRIC CURRENT.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002284

PUBLICATION DATE: 76

TITLE: PRINCIPLES OF PRESSURE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AIR PRESSURE; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; *POST SECONDARY EDUCATION; *PRESSURE; *PHYSICS; *SLIDES

DESCRIPTIVE NOTE: PRICE: $143.00, 35 MM SLIDES, AUDIO CASSETTE

ABSTRACT: INTRODUCES THE FUNDAMENTAL PHYSICAL PRINCIPLES UPON WHICH THE OPERATION OF INDUSTRIAL PROCESS INSTRUMENTATION IS BASED. THE COMMON UNITS OF MEASUREMENT AND DEFINITIONS OF THE TERMS EMPLOYED ARE COVERED. INCLUDES: IMPORTANCE OF PRESSURE MEASUREMENT; FORMULA FOR DETERMINING PRESSURE; ATMOSPHERIC PRESSURE; ATMOSPHERIC PRESSURE AS A REFERENCE; ABSOLUTE PRESSURE; AND MEASURING PRESSURE WITH A U-TUBE.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002285

PUBLICATION DATE: 76

TITLE: PRINCIPLES OF LIQUID LEVEL.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIAL[illegible] *INSTRUMENTATION; *LEVEL MEASUREMENT; *MEASUREMENT; *PO[illegible] SECONDARY EDUCATION; *PRESSURE; *SLIDES

DESCRIPTIVE NOTE: PRICE: $114.00, 35 MM SLIDES, AUDIO CASSETTE

ABSTRACT: INTRODUCES THE FUNDAMENTAL PHYSICAL PRINCIPLES UPON WHICH THE OPERATION OF INDUSTRIAL PROCESS INSTRUMENTATION IS BASED. THE COMMON UNITS OF MEASUREMENT AND DEFINITIONS OF THE TERMS EMPLOYED ARE COVERED. INCLUDES: SIMPLE LEVEL MEASUREMENT; HEAD PRESSURE IN LIQUIDS; BUBBLE

TUBES; DIAPHRAGM BOX; PRESSURE ELEMENT; APPLICATION TO CLOSED TANK; FLOAT AND CABLE; BUOYANCY METER; SONIC MEASUREMENT; AND NUCLEAR MEASUREMENT.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002415

PUBLICATION DATE: 74

TITLE: ENVIRONMENT AND POLLUTION. SOURCES, HEALTH EFFECTS, MONITORING AND CONTROL.

PERSONAL AUTHOR: LEH, FRANCIS D. V.

DESCRIPTOR: AIR POLLUTION CONTROL; *CHEMICAL REACTIONS; *ENVIRONMENTAL INFLUENCES; *ECONOMICS; *METALS; *MONITORING; NATURAL RESOURCES; *POLLUTION; *PUBLIC HEALTH; PESTICIDES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 288P. PRICE: $17.00

ABSTRACT: THE CONTENTS OF THIS BOOK PROVIDE GENERAL INFORMATION DEALING WITH THE VARIOUS ASPECTS OF GLOBAL ENVIRONMENTAL PROBLEMS. PART ONE DEALS WITH THE SOURCES OF AIR POLLUTANTS AND THEIR EFFECTS ON HUMAN HEALTH AND ECONOMY, FOLLOWED BY A DISCUSSION OF METHODS FOR MONITORING AND CONTROL OF AIR POLLUTANTS. THE SECOND PART DEALS WITH TRACE METALS AND ORGANIC COMPOUNDS IN WATER, THEIR BIOLOGICAL EFFECTS, AND METHODS FOR MONITORING AND REMOVAL.

AVAILABILITY: THOMAS PUBLISHER, 301-327 E. LAWRENCE AVE., SPRINGFIELD, IL 62717

IRIS ACCESSION NUMBER: EW002448

PUBLICATION DATE: 75

TITLE: SALINE WATER DISTILLATION PROCESSES.

PERSONAL AUTHOR: PORTEOUS, ANDREW

DESCRIPTOR: *DESALINATION; *DESIGN; *DISTILLATION; *ENGINEERING; *FACILITIES; *OPERATIONS (WATER); *SALINITY; *TECHNOLOGY; *WATER DISTILLATION; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 150P.

ABSTRACT: THIS BOOK PROVIDES AN INTRODUCTION TO THE PRINCIPLES OF SALINE WATER DISTILLATION PROCESSES, ESPECIALLY THE DESIGN AND OPERATION OF DISTILLATION PLANTS. TOPIC AREAS DISCUSSED INCLUDE: (1) THE CONTROL OF SCALE AND CORROSION; (2) MULTI-STAGE FLASH DISTILLATION; (3) MULTIPLE-EFFECT DISTILLATION; (4) TREATMENT OF DESALINATED WATER FOR DOMESTIC USE; AND (5) COMBINED POWER AND WATER PRODUCTION.

AVAILABILITY: LONGMAN, INC., 19 W. 44TH ST., NEW YORK, NY 10056

IRIS ACCESSION NUMBER: EW002449

PUBLICATION DATE: 75

TITLE: SELECTED METHODS IN THE DETERMINATION OF FIRST ROW TRANSITION METALS IN NATURAL FRESH WATER.

PERSONAL AUTHOR: WHITNEY R. G.; RISBY T. H.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMISTRY; *CHEMICAL ANALYSIS; *HEAVY METALS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; METALS; *POST SECONDARY EDUCATION; SAMPLING; *WATER ANALYSIS

DESCRIPTIVE NOTE: 94P. PRICE: $3.50

ABSTRACT: COVERS INTRODUCTION, SAMPLING PROCEDURES, AND SOURCES OF HEAVY METALS IN WATER. ALSO, SELECTED OPTICAL, ELECTROCHEMICAL, AND MISCELLANEOUS METHODS. OUTLINES A PROCEDURE FOR COMPARISON OF THESE METHODS.

AVAILABILITY: THE PENNSYLVANIA STATE UNIV. PRESS, 215 WAGNER BLDG., UNIVERSITY PARK, PA 16802

IRIS ACCESSION NUMBER: EW002550

PUBLICATION DATE: MAY 74

TITLE: VALUES OF PROCESS CONTROL.

DESCRIPTOR: AUDIOVISUAL AIDS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; *PROCESS CONTROL; PERSONNEL; UTILITIES

ABSTRACT: INTRODUCES AND ANALYZES A VARIETY OF ADVANCED CONTROL STRATEGIES WHICH ARE COMMONLY USED TO INCREASE THE PRODUCTIVITY OF LABOR EQUIPMENT AND UTILITIES. DESIGNED TO STIMULATE CREATIVE THINKING ON ADVANCED CONTROL AT A VARIETY OF LEVELS. THIS IS NOT A SELF-STUDY PROGRAM.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002551

PUBLICATION DATE: FEB 74

TITLE: INTRODUCTION TO DIGITAL CONTROL.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIGITAL CONTROL; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *POST SECONDARY EDUCATION; *PROCESS CONTROL; UTILITIES

DESCRIPTIVE NOTE: PRICE: $652.00
ABSTRACT: INTRODUCES AND ANALYZES A VARIETY OF ADVANCED CONTROL STRATEGIES WHICH ARE COMMONLY USED TO INCREASE THE PRODUCTIVITY OF LABOR, EQUIPMENT, AND UTILITIES. THIS IS NOT A SELF-STUDY PROGRAM.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002552

PUBLICATION DATE: SEP 74

TITLE: INDUSTRIAL POLLUTION CONTROL.

DESCRIPTOR: AIR POLLUTION CONTROL; *AUDIOVISUAL AIDS; EFFLUENTS; *INSTRUCTIONAL MATERIALS; *INDUSTRIAL WASTES; *INSTRUMENTATION; *POST SECONDARY EDUCATION; *PROCESS CONTROL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $835.00

ABSTRACT: DEMONSTRATES THE ENGINEERING CONTROL TECHNIQUES AND PRODUCTS WHICH HAVE BEEN DEVELOPED TO TREAT WASTES FOR THE ELIMINATION OF AIR AND WATER POLLUTION. THE FOUR-PART SERIES SHOWS HOW FAMILIAR POTENTIOMETRIC MEASUREMENTS LIKE PH MAY BE USED TO CONTROL THE QUALITY OF EFFLUENTS FROM WASTEWATER TREATMENT PLANTS AND STACK GAS SCRUBBERS.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002553

PUBLICATION DATE: APR 75

TITLE: PH CONTROL.

DESCRIPTOR: AUDIOVISUAL AIDS; *EFFLUENTS; *INSTRUCTIONAL MATERIALS; *INDUSTRIAL WASTES; *PH; *POST SECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $120.00

ABSTRACT: EXPLORES THE MANY DESIGN CRITERIA THAT MUST BE CONSIDERED IN PLANNING AN ACCEPTABLE PLANT EFFLUENT. CREATED TO STIMULATE NEW THINKING IN THE AREA OF PH CONTROL.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002554
PUBLICATION DATE: JAN 75

TITLE: FUNDAMENTALS OF AUTOMATIC CONTROL.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AUTOMATIC CONTROL; INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MAINTENANCE; POST SECONDARY EDUCATION; *PROCESS CONTROL

DESCRIPTIVE NOTE: PRICE: $1012.00

ABSTRACT: PROVIDES A THOROUGH GROUNDING IN THE FUNDAMENTALS OF AUTOMATIC CONTROL BY DEVELOPING THE PRINCIPLES AND OPERATION OF CONTROL LOOPS. OPERATORS ARE SHOWN HOW TO AVOID COSTLY MISTAKES. THE INSTRUMENT MECHANIC WILL LEARN HOW TO DETERMINE CAUSES OF, AND SOLUTIONS TO, CONTROL PROBLEMS. THE ENGINEER IS INSTRUCTED IN THE DESIGN, INSTALLATION, AND TUNING OF SINGLE OR MULTIPLE LOOP CONFIGURATIONS.

AVAILABILITY: THE FOXBORO CO., EDUCATIONAL SERVICES, FOXBORO, MA 02035

INSTITUTION NAME: THE FOXBORO CO.

IRIS ACCESSION NUMBER: EW002927

PUBLICATION DATE: 74

TITLE: RESOURCE RECOVERY FROM MUNICIPAL SOLID WASTE.

DESCRIPTOR: ECONOMICS; ENVIRONMENT; FEDERAL GOVERNMENT; MINERALS; *NATURAL RESOURCES; POLLUTION; *RESOURCE RECOVERY; *RECYCLING; *SOLID WASTES; *TECHNOLOGY

DESCRIPTIVE NOTE: 182P.

ABSTRACT: PROVIDED IS AN OVERVIEW OF THE STATE OF THE ART IN RESOURCE RECOVERY AS IT PERTAINED TO MUNICIPAL SOLID WASTE, WHEN THE BOOK WAS PUBLISHED. BESIDES ADDRESSING THE ROLE OF THE FEDERAL GOVERNMENT, ATTENTION IS GIVEN TO THE TECHNOLOGY, MARKETS AND ECONOMICS OF RESOURCE RECOVERY. THE APPENDIX PRESENTS INFORMATION ON EXISTING AND PROPOSED RECOVERY SYSTEMS THROUGHOUT THE NATION.

AVAILABILITY: LEXINGTON BOOKS, 125 SPRING ST., LEXINGTON MA 02173

INSTITUTION NAME: NATIONAL CENTER FOR RESOURCE RECOVERY INC.

IRIS ACCESSION NUMBER: EW002936

PUBLICATION DATE: NOV 73

TITLE: A PLANNED MAINTENANCE MANAGEMENT SYSTEM FOR MUNICIPAL WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: SARGENT, DONALD H.; RUDICH., DAVID

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL TECHNICIANS; *FACILITY GUIDELINES; JOB SKILLS; *MANAGEMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); POLLUTION; WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $2.75

ABSTRACT: THIS REPORT DESCRIBES A PLANNED MAINTENANCE MANAGEMENT SYSTEM (PMMS) DEVELOPED AND DEMONSTRATED AT A WASTEWATER TREATMENT PLANT IN VIRGINIA. THE SYSTEM IS DESCRIBED IN TECHNICAL DETAIL AND THE TEST DISCUSSES INSTALLATION, INCLUDING ACCEPTANCE BY THE MECHANICS, AND COORDINATION WITH PLANT OPERATIONS. OUTLINED IS THE APPLICATION OF THE SYSTEM TO OTHER WASTEWATER FACILITIES. EXAMPLES OF MAINTENANCE PROCEDURE SHEETS AND EQUIPMENT CLASSIFICATIONS ARE INCLUDED IN THE APPENDICES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW003031

PUBLICATION DATE: 79

TITLE: OCEAN DUMPING AND MARINE POLLUTION.

PERSONAL AUTHOR: PALMER, HAROLD D.; GROSS, M. GRANT

DESCRIPTOR: AQUATIC ANIMALS; AQUATIC PLANTS; ESTUARIES; ENVIRONMENT; *GEOLOGY; *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; *OCEAN DUMPING; *OCEANOLOGY; *POLLUTION; POST SECONDARY EDUCATION; SEDIMENTATION; SEWAGE; SLUDGE; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 268P. PRICE: $18.00

ABSTRACT: PRESENTED ARE 13 PAPERS FROM A SYMPOSIUM CONVENED DURING THE 51ST ANNUAL MEETING OF THE SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOLOGISTS. THE OVERALL TOPIC IS THE GEOLOGIC ASPECTS OF MARINE WASTE DISPOSAL. THE PAPERS ADDRESS SUCH QUESTIONS AS HOW QUICKLY ARE WASTE MATERIALS DISPERSED BY MARINE PROCESSES? AND WHAT ARE THE PATHS OF TRANSPORT? ANOTHER IMPORTANT AREA OF INVESTIGATION IS THE IDENTIFICATION OF HARMFUL COMPONENTS OF WASTE AND THEIR AVAILABILITY TO THE MARINE AND ESTUARINE BIOTA. THE TITLES OF THE 13 PAPERS ARE: (1) WASTE DISPOSAL AND DREDGING ACTIVITIES: THE GEOLOGICAL PERSPECTIVE; (2) SHELF-SEDIMENT DYNAMICS AND SOLID-WASTE DISPOSAL; (3) STABILITY OF DREDGED MATERIALS DEPOSITED SEAWARD OF THE COLUMBIA RIVER MOUTH; (4) GEOLOGIC EFFECTS OF OCEAN DUMPING ON THE NEW YORK BIGHT INNER SHELF; (5) MUD DEPOSITS NEAR THE NEW YORK BIGHT DUMP SITE: ORIGIN AND BEHAVIOR; (6) DEPOSITIONAL CHARACTERISTICS OF SEDIMENTS AT A LOW ENERGY OCEAN DISPOSAL SITE; (7) SAVANNAH, GEORGIA, CONTAINMENT OF PARTICULATE WASTES AT OPEN-WATER DISPOSAL SITES; (8) DREDGING AND DISPOSAL IN CHESAPEAKE BAY, 1975-2025; (9) THE PROBLEMS OF MISPLACED SEDIMENT; (10) TWO WASTE DISPOSAL SITES ON THE CONTINENTAL SHELF, OFF THE MIDDLE ATLANTIC STATES; (11) MATHEMATICAL MODELING PREDICTIONS OF THE GEOLOGICAL EFFECTS OF SEWAGE SLUDGE DUMPING ON THE CONTINENTAL SHELF; (12) DISTRIBUTION OF SUSPENDED PARTICULATE MATTER NEAR SEWAGE OUTFALLS IN SANTA MONICA BAY, CALIFORNIA; AND (13) DREDGED MATERIAL, OCEAN DISPOSAL, AND THE REGULATORY MAZE.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NY 10003

IRIS ACCESSION NUMBER: EW003049

PUBLICATION DATE: APR 78

TITLE: WATER UTILITY PERSONNEL.

DESCRIPTOR: *CURRICULUM; *EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIANS; *EDUCATIONAL NEEDS; *ENGINEERS; INSTRUCTIONAL MATERIALS; *INSTRUCTION; JOB SKILLS; *POSTSECONDARY EDUCATION; *PROFESSIONAL DEVELOPMENT; SANITATION; *SURVEYS; UTILITIES; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 87P.

ABSTRACT: THIS REPORT PRESENTS THE FINDINGS OF A SURVEY CONDUCTED BY THE ASSOCIATION OF STATE SANITARY ENGINEERS REGARDING THE MATERIALS AND TRAINING OPPORTUNITIES FOR PERSONNEL OF PUBLIC WATER SYSTEMS. AFTER A BRIEF OVERVIEW THE DOCUMENT DISCUSSES THE TYPES OF TRAINING CURRENTLY AVAILABLE AND PROVIDES A STATE BY STATE CAPSULE REPORT. THE REPORT CLOSES WITH SEVERAL NATIONAL RECOMMENDATIONS INCLUDING: (1) UTILIZATION OF THIS REPORT; (2) COORDINATION OF ASSOCIATED ORGANIZATIONS; (3) AND THE ROLE OF THE U. S. ENVIRONMENTAL PROTECTION AGENCY.

AVAILABILITY: U. S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF WATER SUPPLY, WASHINGTON, DC

INSTITUTION NAME: CONFERENCE OF STATE SANITARY ENGINEERS, TROY, NY .

IRIS ACCESSION NUMBER: EW003050

PUBLICATION DATE: JAN 76

TITLE: BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL.

DESCRIPTOR: ENVIRONMENT; *LAWS; MUNICIPALITITES; POLLUTION; *PUBLIC HEALTH; *PLUMBING; *SANITATION; UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *BACKFLOW; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 63P. PRICE: $1.00 PLUS 3 CENTS PER PAGE

ABSTRACT: THIS PUBLICATION DISCUSSES THE PROBLEMS ASSOCIATED WITH SUPPLYING SAFE PUBLIC WATER AND STEPS WHICH CAN BE TAKEN TO ASSURE ITS AVAILABILITY. IN SECTION 1, PROBLEMS RESULTING FROM SEWAGE BACKFLOW, CROSS-CONNECTIONS, OR SIPHONING ARE PRESENTED. IN SECTION 2, THESE DISCUSSIONS ARE ELABORATED CITING EXAMPLES ACCOMPANIED BY ILLUSTRATIONS. METHODS OF BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL ARE DISCUSSED AND ILLUSTRATED IN SECTIONS 3, 4, AND 5. STATE LAWS AND STATE REGULATIONS AS WELL AS SUGGESTED LOCAL ORDINANCES ARE PROVIDED IN THE APPENDIX.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD., 2ND FLOOR, COLUMBUS, OH 43212

INSTITUTION NAME: OHIO EPA, OFFICE OF PUBLIC WATER SUPPLY.

IRIS ACCESSION NUMBER: EW003055

PUBLICATION DATE: 72

TITLE: MANUAL OF SEPTIC TANK PRACTICE.

DESCRIPTOR: ABSORPTION; *DISPOSAL; *SEPTIC TANKS; *SEWERS; SOIL INCORPORATION; *SANITATION; UNDERGROUND DISPOSAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER QUALITY

ABSTRACT: THIS MANUAL IS DIVIDED INTO TWO PARTS, PART ONE ON SOIL ABSORPTION SYSTEMS FOR PRIVATE RESIDENCES, AND PART TWO ON INSTITUTIONS, RECREATIONAL AREAS, AND OTHER ESTABLISHMENTS. PART ONE COVERS SUCH SUBJECTS AS PERCOLATION TESTS, SOIL ABSORPTION SYSTEMS, SELECTION OF A SEPTIC TANK, SPECIFICATIONS FOR SEPTIC TANKS, AND GENERAL INFORMATION ON SEPTIC TANKS. PART TWO COVERS ESTIMATES OF SEWAGE QUANTITIES OF SOIL ABSORPTION AREAS, BUILDING SEWERS, COLLECTION SYSTEMS, GREASE TRAPS, SAND FILTERS, AND CHLORINATION. APPENDED IS A GUIDE FOR ESTIMATING SOIL ABSORPTION POTENTIAL AND INFORMATION ON ORDINANCES, ENGINEERING, DRAINAGE FIXTURES, AND INDUSTRIAL WASTE TREATMENT.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20201

INSTITUTION NAME: U.S. DEPT. OF HEW.

IRIS ACCESSION NUMBER: EW003057

PUBLICATION DATE: SEP 75

TITLE: NON-POINT SOURCES OF WATER POLLUTION.

PERSONAL AUTHOR: ASHTON, PETER M.; UNDERWOOD, RICHARD C.

DESCRIPTOR: *CONFERENCE REPORTS; *NONPOINT SOURCES; *POLLUTION; *RESEARCH; WASTE DISPOSAL; *WATER RESOURCES; *WATER POLLUTION CONTROL; WATER QUALITY; *WASTEWATER TREATMENT

ABSTRACT: THIS PUBLICATION IS THE PROCEEDINGS FROM A WATER POLLUTION CONFERENCE HELD IN VIRGINIA IN THE SPRING OF 1975. PRESENTED PAPERS ARE ORGANIZED UNDER THREE HEADINGS: (1) STATE OF THE ART; (2) RESEARCH REPORTS; AND (3) CONTROL SOLUTIONS. A TOTAL OF 21 PAPERS ARE CONTAINED RELATING TO NONPOINT SOURCE WATER POLLUTION CONTROL. PAPER TITLES INCLUDE: (1) BALANCE AND PERSPECTIVE IN NONPOINT SOURCE WATER POLLUTION CONTROL PROGRAMS; (2) AN OVERVIEW OF NONPOINT WATER POLLUTION FROM THE URBAN-SUBURBAN ARENA; (3) NONPOINT POLLUTION FROM MINING AND MINERAL EXTRACTION; (4) ANIMAL WASTE AND NONPOINT POLLUTION; (5) HARVESTING SOUTHERN FORESTS: A THREAT TO WATER QUALITY; (6) HEAVY METALS IN URBAN RUNOFF; (7) STREAM REHABILITATION THROUGH CONTROL OF NONPOINT SOURCES OF ACID MINE DRAINAGE; (8) PRIVATE CONTROL MEASURES FOR NONPOINT WATER POLLUTION, AND (9) AREAWIDE WASTE TREATMENT MANAGEMENT OF NONPOINT POLLUTION. A LIST OF CONFERENCES IS APPENDED.

AVAILABILITY: VA POLYTECHNIC INSTITUTE & STATE UNIV., 225 NORRIS HALL, BLACKBURG, VA 24061

IRIS ACCESSION NUMBER: EW003068

PUBLICATION DATE: APR 77

TITLE: NATIONAL CONFERENCE ON LESS COSTLY WASTEWATER TREATMENT SYSTEMS FOR SMALL COMMUNITIES.

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENTAL CRITERIA; *MUNICIPALITIES; POLLUTION; PUBLIC HEALTH; *RESEARCH; *UTILITIES; *WASTE DISPOSAL; WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *FACILITIES

DESCRIPTIVE NOTE: 113P.

ABSTRACT: THIS REPORT CONTAINS THE PAPERS PRESENTED AT A NATIONAL CONFERENCE ON WASTEWATER TREATMENT SYSTEMS. THE FOCUS OF THE PRESENTATIONS IS SOUND AND ECONOMICAL ALTERNATIVES TO CONVENTIONAL CENTRALIZED WASTEWATER COLLECTION AND TREATMENT SYSTEMS FOR SMALL COMMUNITIES. DISCUSSION INCLUDES PRESENT GOVERNMENTAL POLICY ON WASTEWATER FACILITIES AND DESCRIPTIONS OF MAJOR TYPES OF CONVEYANCE AND TREATMENT SYSTEMS. EXAMPLES ARE PROVIDED OF SUCCESSFUL AND COST-EFFECTIVE INSTALLATIONS WHICH MEET ENVIRONMENTAL REQUIREMENTS.

AVAILABILITY: U. S. EPA-ERIC, 26 W. ST. CLAIR, RM G-75, CINCINNATI, OH 45268

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW003181

TITLE: WATER PLANT OPERATOR INTRODUCTORY COURSE "BASIC".

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *CURRICULUM GUIDES; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *WATER QUALITY; WATER POLLUTION CONTROL; *ILLINOIS; *WATER TREATMENT; *OPERATIONS (WATER)

DESCRIPTIVE NOTE: 80P.

ABSTRACT: THIS DOCUMENT PROVIDES A GENERAL OUTLINE FOR A SIXTEEN SESSION BASIC INTRODUCTORY COURSE FOR ENVIRONMENTAL TECHNICIANS INVOLVED WITH WATER TREATMENT PLANT OPERATIONS. EACH SESSION IS DESIGNED TO LAST TWO AND ONE-HALF HOURS AND COVERS SUCH TOPICS AS MATHEMATICS, PUBLIC WATER SUPPLIES, WATER QUALITY, DISTRIBUTION SYSTEMS, EQUIPMENT, PLANT OPERATIONS, AND QUALITY PROTECTION.

AVAILABILITY: ILLINOIS EPA, DIVISION OF PUBLIC WATER SUPPLIES, SPRINGFIELD, IL 62706

IRIS ACCESSION NUMBER: EW003270
PUBLICATION DATE: OCT 78

TITLE: PROCESS DESIGN MANUAL MUNICIPAL SLUDGE LANDFILLS.

DESCRIPTOR: ECONOMICS; *INSTRUCTIONAL MATERIALS; *LAND USE; *MUNICIPAL WASTES; *MANAGEMENT; *OPERATIONS; POST SECONDARY EDUCATION; *WASTE DISPOSAL; *SLUDGE; *LANDFILL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 292P.

ABSTRACT: THE PRIMARY OBJECTIVE OF THIS MANUAL IS TO PROVIDE GENERAL GUIDANCE AND A SOURCE OF INFORMATION TO BE USED IN THE PLANNING, DESIGN, AND OPERATION OF A LANDFILL RECEIVING MUNICIPAL WASTEWATER TREATMENT PLANT SLUDGE. ACCORDINGLY, TYPICAL PROCEDURES, CASE STUDIES, AND EXAMPLES ARE PRESENTED WHICH ARE INTENDED TO SERVE AS AIDS TO THE USER. MAJOR ALTERNATIVE SLUDGE LANDFILLING METHODS ARE IDENTIFIED AND DESCRIBED. GUIDANCE IS GIVEN ON THE SELECTION OF THE LANDFILLING METHOD WHICH IS BEST SUITED FOR A GIVEN COMBINATION OF SLUDGE CHARACTERISTICS AND SITE CONDITIONS. FOR EACH LANDFILLING METHOD, THE FOLLOWING FEATURES ARE ADDRESSED: PUBLIC PARTICIPATION PROGRAM, SITE SELECTION, DESIGN, OPERATION, MONITORING, COMPLETED SITE, MANAGEMENT, AND COSTS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW003357

PUBLICATION DATE: 78

TITLE: MUNICIPAL AND INDUSTRIAL WATER CONSERVATION--THE FEDERAL GOVERNMENT COULD DO MORE.

PERSONAL AUTHOR: THE COMPTROLLER GENERAL OF THE UNITED STATES

DESCRIPTOR: *CONSERVATION; *ENVIRONMENT; *GOVERNMENT ROLE; FEDERAL GOVERNMENT; *INFORMATION DISSEMINATION; INDUSTRY; MUNICIPALITIES; NATURAL RESOURCES; *NON-FORMAL EDUCATION; POLLUTION; PUBLIC POLICY; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 67P.

ABSTRACT: THIS REPORT PROVIDES AN OVERVIEW OF OPPORTUNITIES FOR CONSERVING MUNICIPAL AND INDUSTRIAL WATER SUPPLIES. IT DESCRIBES METHODS FOR CONSERVATION OF MUNICIPAL AND INDUSTRIAL WATER AND DISCUSSES THE NEED TO DISSEMINATE INFORMATION ON THESE METHODS TO THE PUBLIC. EXPERIENCES OF VARIOUS MUNICIPALITIES IN IMPLEMENTING WATER CONSERVATION MEASURES ARE DOCUMENTED. THE ROLE OF FEDERAL AGENCIES IN PROMOTING WATER CONSERVATION IS DISCUSSED. AN APPENDIX INCLUDES COMMENTS FROM AGENCIES THAT REVIEWED THIS DOCUMENT.

AVAILABILITY: U. S. GENERAL ACCOUNTING OFFICE, DISTRIBUTION SECTION, P. O. BOX 1020, WASHINGTON, DC 20013

IRIS ACCESSION NUMBER: EW003366
PUBLICATION DATE: MAR 79

TITLE: THE ENVIRONMENTAL JOBS HANDBOOK. 1979.

DESCRIPTOR: *CAREERS; *ENVIRONMENT; *EMPLOYMENT OPPORTUNITIES; ENGINEERING; *INSTRUCTIONAL MATERIALS; *JOB SEARCH METHODS; NATURAL RESOURCES; *OCCUPATIONAL INFORMATION; *POST SECONDARY EDUCATION; SCIENCES

DESCRIPTIVE NOTE: 112P.

ABSTRACT: THIS HANDBOOK PROVIDES STEP-BY-STEP GUIDELINES FOR LOCATING ENVIRONMENTALLY RELATED JOB OPPORTUNITIES. EACH CHAPTER CONTAINS DESCRIPTIONS OF JOB-FINDING RESOURCES AND RECOMMENDED PROCEDURES FOR UTILIZING THEM. THE BEGINNING CHAPTERS PROVIDE INFORMATION ABOUT NEWSPAPERS, PERIODICALS, PLACEMENT SERVICES, AND GOVERNMENTAL AGENCIES THAT LIST POSITION OPENINGS. INFORMATION ON OTHER RESOURCES SUCH AS CAREER GUIDES, JOB-HUNTING MANUALS AND PROFESSIONAL HELP IS PROVIDED IN THE LAST CHAPTER. CAREER CATEGORIES DISCUSSED INCLUDE: (1) ENVIRONMENTAL PLANNING; (2) ADMINISTRATION; (3) ECOLOGY; (4) MANAGEMENT; (5) ENVIRONMENTAL ENGINEERING; (6) ATMOSPHERIC SCIENCES; AND (7) ENERGY.

AVAILABILITY: MIKON PUBLISHING CO., WEST BETHESDA BRANCH, BOX 34465, WASHINGTON, DC 20034

INSTITUTION NAME: ENVIRONMENTAL ASSOCIATES.

IRIS ACCESSION NUMBER: EW003479

PUBLICATION DATE: 76

TITLE: CITIZEN INVOLVEMENT IN OCPC 208 PLANNING: A PROGRESS REPORT.

DESCRIPTOR: CHANGE STRATEGIES; *CITIZEN PARTICIPATION; *DECISION MAKING; *ENVIRONMENT; *POLICY FORMATION; PUBLIC OPINION; *PUBLIC POLICY; *REGIONAL PLANNING; *WATER POLLUTION CONTROL; *WATER RESOURCES; *MASSACHUSETTS

DESCRIPTIVE NOTE: 135P.

ABSTRACT: THIS REPORT DOCUMENTS THE FIRST SIX MONTHS OF THE 208 PUBLIC PARTICIPATION PROGRAM OF THE PLANNING COMMISSION, OLD COLONY, MASSACHUSETTS. THE REPORT DISCUSSES SUCH ASPECTS OF PUBLIC PARTICIPATION AS: THE ALLOCATION OF STAFF TIME TO PUBLIC INVOLVEMENT; MECHANISMS AND TECHNIQUES DEVELOPED BY THE STAFF TO ENGAGE THE PUBLIC IN WATER QUALITY MANAGEMENT PLANNING; AND ISSUES THAT SURFACED DURING THE FIRST SIX MONTHS OF THE OLD COLONY PLANNING COMMISSION PROGRAM OF PUBLIC PARTICIPATION IN WATER QUALITY MANAGEMENT. APPENDICES PRESENT EXAMPLES INCLUDING INVITATIONAL LETTERS, MEETING MINUTES, NEWS RELEASES, AND A QUESTIONNAIRE.

AVAILABILITY: U. S. ENVIRONMENTAL PROTECTION AGENCY, WATER PLANNING DIV., 401 M. ST., S. W. WASHINGTON, DC 20460

INSTITUTION NAME: OLD COLONY PLANNING COUNCIL, BROCKTON, MA 02401.

IRIS ACCESSION NUMBER: EW003562
PUBLICATION DATE: 77

TITLE: EFFICIENT TREATMENT OF SMALL MUNICIPAL FLOWS AT DAWSON, MINN.

DESCRIPTOR: COST EFFECTIVENESS; CHEMICAL ANALYSIS; *ENVIRONMENTAL INFLUENCES; *MUNICIPALITIES; POLLUTION; PUBLIC HEALTH; RESEARCH; *REPORTS; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *MINNESOTA

DESCRIPTIVE NOTE: 12P.

ABSTRACT: THIS CAPSULE REPORT DOCUMENTS A CASE STUDY IN DAWSON, MINNESOTA WHICH DEMONSTRATES THE ABILITY OF A SMALL TREATMENT PLANT TO PROVIDE EFFICIENT REMOVAL OF BOD SUSPENDED SOLIDS AND CONSISTENT NITRIFICATION WITHOUT THE USE OF EXPENSIVE CHEMICAL TREATMENT PROCESSES. THE FACILITY, PROGRAM, AND RESULTS ARE PRESENTED BY GRAPHS, DIAGRAMS, AND PHOTOGRAPHS.

AVAILABILITY: BENJAMIN LYKENS JR., U. S. EPA-MERL, 26 W. ST. CLAIR, CINCINNATI, OH 45268

INSTITUTION NAME: U. S. ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW003572

PUBLICATION DATE: JUN 76
TITLE: PUBLIC PARTICIPATION HANDBOOK FOR WATER QUALITY MANAGEMENT.

DESCRIPTOR: CHANGE STRATEGIES; *CITIZEN PARTICIPATION; *DECISION MAKING; ENVIRONMENT; *FEDERAL GOVERNMENT; *LEGISLATION; *POLICY FORMATION; PUBLIC OPINION; *PUBLIC POLICY; PUBLIC RELATIONS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 78P.

ABSTRACT: THIS HANDBOOK OFFERS SUPPLEMENTAL EXPLANATION OF PUBLIC PARTICIPATION REQUIREMENTS OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972. REGULATIONS, GUIDELINES, AND POLICIES ARE PRESENTED AND REFERENCED; EXAMPLES OF WAYS TO OBTAIN PARTICIPATION ARE PROVIDED. PRINCIPLES OF, AND REQUIREMENTS FOR MAINTAINING A PUBLIC PARTICIPATION PROGRAM WITHIN BROAD PLANNING PHASES ARE DESCRIBED. A MODEL PROGRAM SECTION DESCRIBES A PROGRAM STRUCTURE, AND DESCRIBES A VARIETY OF METHODS FOR ENCOURAGEING PUBLIC PARTICIPATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC 20460.

IRIS ACCESSION NUMBER: EW003714
PUBLICATION DATE: JAN 77

TITLE: INDUSTRIAL WASTE AND PRETREATMENT IN THE BUFFALO MUNICIPAL SYSTEM. MCD-31.

PERSONAL AUTHOR: PECK, KENNETH; GORTON, JOHN C., JR.

DESCRIPTOR: ADMINISTRATIVE AGENCIES; *COST EFFECTIVENESS; *DESIGN; *FACILITIES; *INDUSTRIAL WASTES; LAND USE; MUNICIPALITIES; REGULATIONS; *SEWERS; *SLUDGE; UTILITIES; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 184P.

ABSTRACT: THIS DOCUMENT REPORTS ON A STUDY UNDERTAKEN TO DETERMINE THE REQUIREMENTS AND EFFECTS OF THE COMBINED TREATMENT OF INDUSTRIAL AND DOMESTIC WASTEWATERS FOR THE BUFFALO, NEW YORK, SEWERAGE SYSTEM. A COMPREHENSIVE INDUSTRIAL WASTE SURVEY WAS PERFORMED TO DEVELOP WASTE CONTROL AND COST RECOVERY PROGRAMS. ADDITIONALLY, AN ECONOMIC EVALUATION OF INDUSTRIAL USERS WAS PERFORMED. THE REPORT ALSO DISCUSSES THREE SLUDGE DISPOSAL OPTIONS THAT WERE INVESTIGATED FOR THE BUFFALO AREA. THE SEWER REGULATIONS OF THE BUFFALO SEWER AUTHORITY ARE INCLUDED IN THE APPENDIX.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS), CENTRALIZED MAILING LISTS SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, CO 80225

IRIS ACCESSION NUMBER: EW003724

PUBLICATION DATE: MAY 78

TITLE: MANUAL FOR THE INTERIM CERTIFICATION OF LABORATORIES INVOLVED IN ANALYZING PUBLIC DRINKING WATER SUPPLIES: CRITERIA AND PROCEDURES.

PERSONAL AUTHOR: STANLEY, THOMAS W.

DESCRIPTOR: *CERTIFICATION; CHEMISTRY; *COMPLIANCE; *EQUIPMENT STANDARDS; *FEDERAL LEGISLATION; LABORATORIES; *LABORATORY PROCEDURES; MICROBIOLOGY; *OPERATIONS (WATER); PUBLIC HEALTH; *WATER ANALYSIS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 99P. PRICE: $6.00

ABSTRACT: THIS MANUAL PROVIDES INFORMATION TO ASSIST IN THE IMPLEMENTATION OF SECTION 141.28 OF THE SAFE DRINKING WATER ACT BY PROVIDING A MECHANISM FOR APPROVAL OF LABORATORIES TO ASSURE THE VALIDITY AND QUALITY OF THE DATA BEING DEVELOPED FOR COMPLIANCE. CHAPTER ONE PROVIDES A GENERAL INTRODUCTION TO THE ACT AND ITS REQUIREMENTS. CHAPTER TWO OUTLINES THE INTERIM CERTIFICATION PROGRAM, WHILE CHAPTER THREE DELINEATES RESPONSIBILITIES WITHIN EPA AND DESCRIBES HOW THE PROGRAM WILL BE OPERATED. THE REMAINING CHAPTERS COVER TECHNICAL REQUIREMENTS FOR CONDUCTING ON-SITE EVALUATIONS OF CHEMICAL, MICROBIOLOGICAL AND RADIOCHEMICAL LABORATORIES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICES, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW003828

PUBLICATION DATE: 78

TITLE: WATER QUALITY SURVEYS. A GUIDE FOR THE COLLECTION AND INTERPRETATION OF WATER QUALITY DATA.

DESCRIPTOR: *DATA ANALYSIS; ESTUARIES; GLOBAL APPROACH; GROUNDWATER; *HYDROLOGY; *LABORATORY PROCEDURES; LAKES; *NATURAL RESOURCES; POLLUTION; RIVERS; *SAMPLING; *SURVEYS; *WATER QUALITY; *WATER RESOURCES; *WATER POLLUTION CONTROL; WATER ANALYSIS

DESCRIPTIVE NOTE: 350P. PRICE: $26.50

ABSTRACT: THIS GUIDEBOOK PRESENTS DATA AND INFORMATION OBTAINED FROM HYDROLOGIC STUDIES AROUND THE WORLD. BOTH PRACTICAL AND THEORETICAL MATERIAL IS PRESENTED TO AID TECHNICIANS AND SCIENTISTS CONCERNED WITH WATER PROBLEMS. INCLUDED ARE FOUR MAIN SECTIONS. THE FIRST IS AN INTRODUCTION TO THE VARIOUS ASPECTS OF WATER QUALITY SURVEYS. PART TWO DESCRIBES THE FACTORS AFFECTING WATER QUALITY, WHILE THE THIRD SECTION IS DEVOTED TO TECHNIQUES GENERALLY APPLICABLE TO SAMPLING, ANALYZING, AND DATA TREATMENT. THE SPECIAL FEATURES OF WATER QUALITY SURVEYS IN DIFFERENT TYPES OF WATER BODIES ARE DISCUSSED IN SECTION FOUR. BIBLIOGRAPHIES THROUGHOUT THE BOOK LIST REFERENCES TO INTERNATIONAL LITERATURE.
AVAILABILITY: UNIPUB, INC., P. O. BOX 433, NEW YORK, NY 10016

INSTITUTION NAME: IHD-WHO WORKING GROUP ON QUALITY OF WATER.

IRIS ACCESSION NUMBER: EW003829

PUBLICATION DATE: 72

TITLE: GROUND-WATER STUDIES. AN INTERNATIONAL GUIDE FOR RESEARCH AND PRACTICE.

PERSONAL AUTHOR: BROWN, R. H., ED.

DESCRIPTOR: DATA ANALYSIS; *GROUNDWATER; *HYDROLOGY; *INSTRUMENTATION; *NATURAL RESOURCES; POLLUTION; *RESEARCH; *SAMPLING TECHNIQUES; WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 200P. PRICE: $31.50

ABSTRACT: THIS GUIDE PROVIDES INFORMATION TO INDIVIDUALS RESPONSIBLE FOR ORGANIZING AND CONDUCTING GROUNDWATER INVESTIGATIONS. CONTAINED WITHIN THE TEXT ARE: (1) DISCUSSIONS AND RECOMMENDATIONS CONCERNING THE ORGANIZATION AND METHODS OF UNDERTAKING GROUNDWATER INVESTIGATIONS; (2) PROCEDURES FOR ESTABLISHING GROUNDWATER BALANCES; (3) FORECASTING GROUNDWATER CONDITIONS; (4) THE SELECTION AND LOCATION OF OBSERVATION STATIONS; (5) SELECTION OF APPROPRIATE INSTRUMENTS AND EQUIPMENT; AND (6) METHODS OF COLLECTING, PROCESSING AND ANALYZING GROUNDWATER DATA. AN EXTENSIVE BIBLIOGRAPHY IS PROVIDED IN THE APPENDIX.

AVAILABILITY: UNIPUB, INC., P. O. BOX 433, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW003843

PUBLICATION DATE: 78

TITLE: THE NATION'S WATER OUTLOOK TO THE YEAR 2000.

PERSONAL AUTHOR: VIESSMAN, WARREN, JR.; AND OTHERS

DESCRIPTOR: *CONSERVATION; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; FUTURES OF SOCIETY; LEGISLATION; *MANAGEMENT; *NATURAL RESOURCES; *NATIONAL PROGRAMS; *WATER RESOURCES; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 64P. ORDER NO. CRS-78-26-ENR

ABSTRACT: THIS DOCUMENT DISCUSSES THE RECENT SITUATION SURROUNDING WATER RESOURCE MANAGEMENT IN THE UNITED STATES. PROJECTIONS TO THE YEAR 2000 ARE GIVEN AND EMERGING PROBLEMS AND POSSIBLE COURSES OF ACTION ARE IDENTIFIED. REGIONAL ISSUES ARE DISCUSSED IN THE CONTEXT OF THE U. S. WATER RESOURCES COUNCIL'S 21 REGIONS. SOME TRENDS ARE REPORTED ON A STATE BASIS.
AVAILABILITY: CONGRESSIONAL RESEARCH SERVICE, LIBRARY OF CONGRESS, WASHINGTON, DC 20540

IRIS ACCESSION NUMBER: EW003852

PUBLICATION DATE: OCT 78

TITLE: THE ECONOMIC IMPACT ANALYSIS OF EFFLUENT STANDARDS FOR TOTAL DISSOLVED SOLIDS.

PERSONAL AUTHOR: HUFF, LINDA L.

DESCRIPTOR: COST EFFECTIVENESS; *ECONOMICS; *ENVIRONMENTAL INFLUENCES; *LEGISLATION; POLLUTION; PUBLIC HEALTH; WATER QUALITY; WATER POLLUTION CONTROL; *WATER TREATMENT; ILLINOIS; EFFLUENTS; *STANDARDS

DESCRIPTIVE NOTE: 77P.

ABSTRACT: THIS REPORT PROVIDES INFORMATION COLLECTED IN CONJUNCTION WITH A PROPOSED ELIMINATION OF EFFLUENT STANDARDS CONTROLLING TOTAL DISSOLVED SOLIDS (TDS) IN ILLINOIS. THE IMPORTANCE OF DELINEATING POINT AND NONPOINT SOURCES IS DEVELOPED. THE TEXT ALSO DESCRIBES THE BENEFITS OF REDUCED MONITORING AND TREATMENT COSTS FOR IMPACTED DISCHARGERS, AND PRESENTS THE ENVIRONMENTAL DAMAGES OR COSTS INCURRED BY ELIMINATING THE TDS EFFLUENT STANDARD. THE MAGNITUDE OF COSTS AND BENEFITS ARE COMPARED AND LIMITS TO

THE ANALYSIS ARE PROVIDED.

AVAILABILITY: INSTITUTE OF NATURAL RESOURCES, 309 WEST WASHINGTON ST., CHICAGO, IL 60606

IRIS ACCESSION NUMBER: EW003853

PUBLICATION DATE: 72

TITLE: THE ENVIRONMENT CRISIS: A BASIC OVERVIEW OF THE PROBLEM OF POLLUTION.

PERSONAL AUTHOR: ROHRER, DANIEL M.; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; CONSERVATION (ENVIRONMENT); *ENVIRONMENT; *GOVERNMENT ROLE; *INDUSTRY; NATURAL RESOURCES; *POLLUTION; POLICIES; TECHNOLOGY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 346P. PRICE: $3.00

ABSTRACT: THIS BOOK PRESENTS AN OVERVIEW TO ECOLOGY, AND THE TECHNOLOGY AND ECONOMICS OF POLLUTION AS THEY APPLY TO AIR AND WATER RESOURCES. ADDITIONALLY THE AUTHORS HAVE EVALUATED THE FOCUS OF FEDERAL, STATE, REGIONAL LOCAL, AND INDUSTRIAL INVOLVEMENT IN POLLUTION CONTROL. A DISCUSSION IS PROVIDED REGARDING EXISTING PROGRAMS AND METHODS OF POLLUTION CONTROL AS THEY PERTAIN TO THE GOVERNMENTAL AND INDUSTRIAL RESPONSIBILITIES. FIGURES AND TABLES ARE FOOTNOTED IN THE APPENDIX ALONG WITH AN EXTENSIVE BIBLIOGRAPHY OF BOOKS, ARTICLES, AND GOVERNMENTAL REPORTS.

AVAILABILITY: NATIONAL TEXTBOOK CO., 8259 NILES CENTER RD., SKOKIE, IL 60076

IRIS ACCESSION NUMBER: EW003855

PUBLICATION DATE: MAR 76

TITLE: RESIDENTIAL WATER CONSERVATION. REPORT NO. 35.

PERSONAL AUTHOR: MILNE, MURRAY

DESCRIPTOR: *CONSERVATION; CHANGING ATTITUDES; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL EDUCATION; ECONOMICS; *LIVING STANDARDS; *MANAGEMENT; PLUMBING; RECYCLING; TECHNOLOGY; *WATER RESOURCES

DESCRIPTIVE NOTE: 469P.

ABSTRACT: THIS DOCUMENT PRESENTS NON-TECHNICAL INFORMATION FOR THE INDIVIDUAL CONCERNED WITH REDUCING RESIDENTIAL WATER CONSUMPTION. THE IMPACT OF ECONOMIC, INSTITUTIONAL, SOCIO-CULTURAL, AND TECHNOLOGICAL FACTORS IS DISCUSSED. COMMERICIALLY AVAILABLE DEVICES WHICH AFFECT WATER CONSUMPTION ARE EVALUATED AND SEVERAL SCENARIOS ARE PRESENTED TO ILLUSTRATE STRATEGIES FOR REDUCING HOME WATER CONSUMPTION. THE APPENDIX CONTAINS AN ANNOTATED BIBLIOGRAPHY AND A DIRECTORY OF MANUFACTURERS OF PLUMBING HARDWARE.

AVAILABILITY: CALIFORNIA WATER RESOURCES CENTER, UNIVERSITY OF CALIFORNIA, DAVIS, CA 95616

IRIS ACCESSION NUMBER: EW003856

PUBLICATION DATE: DEC 73

TITLE: START-UP OF MUNICIPAL WASTEWATER TREATMENT FACILITIES.

DESCRIPTOR: ANAEROBIC DIGESTION; *EQUIPMENT UTILIZATION; *FACILITY GUIDELINES; *MANAGEMENT; *OPERATIONS (WASTEWATER); PERSONNEL; PRETREATMENT; SAFETY; SLUDGE; *START-UP PROCEDURES; TRICKLING FILTERS; UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 92P.

ABSTRACT: THIS MANUAL PROVIDES GUIDELINES FOR PUTTING INTO OPERATION NEW OR ADDITIONS TO MUNICIPAL WASTEWATER TREATMENT PLANTS. INFORMATION IS PROVIDED ON PREPARING FOR ACTUAL TREATMENT PLANT START-UP INCLUDING: (1) STAFFING; (2) STANDARD OPERATING PROCEDURES; (3) SAFETY; (4) PRETREATMENT; (5) TRICKLING FILTERS; (6) SLUDGE HANDLING; AND (7) ANAEROBIC DIGESTION. REFERENCES AND A GLOSSARY OF PERTINENT WASTEWATER TERMS ARE INCLUDED.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

INSTITUTION NAME: MUNICIPAL OPERATIONS BRANCH, OFFICE OF WATER PROGRAM OPERATIONS WASHINGTON, DC 20460.

IRIS ACCESSION NUMBER: EW003857

PUBLICATION DATE: MAR 73

TITLE: ESTIMATING STAFFING FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES.

DESCRIPTOR: *FACILITY PLANNING; *MANAGEMENT; *MANPOWER NEEDS; *PERSONNEL; *PLANNING; *TASK ANALYSIS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 90P.

ABSTRACT: THIS MANUAL DESCRIBES A FOUR-STEP METHOD FOR PREPARING STAFFING ESTIMATES FOR SEWAGE TREATMENT PLANTS. IT COVERS PLANTS WITH CAPACITIES TO 25 MILLION GALLONS PER DAY OF SEWAGE, USING PRIMARY, SECONDARY AND ADVANCED TREATMENT PROCESSES. THE STEPS DISCUSSED ARE: (1) DEVELOPING A TABLE OF ADJUSTMENT FOR LOCAL CONDITIONS; (2) DEVELOP THE STAFFING FOR AN AVERAGE PLANT; (3) ADJUST STAFFING TO MEET LOCAL CONDITIONS; AND (4) BREAKDOWN STAFFING INTO SPECIFIC TASKS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

INSTITUTION NAME: OPERATION AND MAINTENANCE PROGRAM, OFFICE OF WATER PROGRAM OPERATIONS, WASHINGTON, DC 20460.

IRIS ACCESSION NUMBER: EW003859
PUBLICATION DATE: MAY 75

TITLE: THE SECOND NATIONAL CONFERENCE ON COMPLETE WATER REUSE: WATER'S INTERFACE WITH ENERGY, AIR AND SOLIDS.

DESCRIPTOR: AIR POLLUTION CONTROL; ENERGY; *ENVIRONMENTAL INFLUENCES; INSTRUMENTATION; LAND USE; MANAGEMENT; METALS; POLLUTION; *PUBLIC HEALTH; *RECYCLING; *RESEARCH; SLUDGE; SULFUR; TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 1255P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT THE SECOND NATIONAL CONFERENCE ON WATER REUSE. THE TOPIC AREAS ARE CONCERNED WITH WATER'S INTERFACE WITH ENERGY, AIR AND SOLIDS. TOPICS INCLUDE: (1) TECHNOLOGY TRANSFER; (2) CITIZEN'S VIEWS; (3) TOXIC METALS AND THEIR REMOVAL; (4) SULFUR; (5) AESTHETICS AND HEALTH; (6) COOLING TOWERS; (7) LAND USE; (8) SLUDGE; (9) TREATMENT PROCESSES; (10) INSTRUMENTATION; (11) MANAGEMENT; AND (12) MANUFACTURING. EACH PAPER CONTAINS SUPPORTING TABLES, GRAPHS, AND FIGURES AND MOST PROVIDE A LIST OF REFERENCES.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47 ST., NEW YORK, NY 10017

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003868

PUBLICATION DATE: MAY 79

TITLE: NON-METAL PARTS END VALVE CYLINDER CORROSION.

PERSONAL AUTHOR: SUMMERS, O. W.

DESCRIPTOR: *EQUIPMENT; UTILITIES; *TECHNOLOGY; *COST EFFECTIVENESS; *WATER TREATMENT; *CYLINDERS; *MAINTENANCE

ABSTRACT: THIS ARTICLE REPORTS THE IN-FIELD TESTING UNDERTAKEN WITH NON-METAL CYLINDERS TO TEST THEIR EFFICIENCY, ECONOMY AND DURABILITY IN WATER SERVICE APPLICATIONS. RESULTS OF A 43-MONTH TESTING PROGRAM INDICATED THAT CYLINDERS MADE OF NON-METALLIC MATERIALS ELIMINATED HEAD CORROSION, WHILE OFFERING RELIABILITY AND STRENGTH.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N5, P56-58, MAY 79; UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003869

PUBLICATION DATE: MAY 79

TITLE: RATE STRUCTURE "RECOGNIZES" GOOD AND BAD CONSERVATION.

DESCRIPTOR: *WATER RESOURCES; UTILITIES; MUNICIPALITIES; *CONSERVATION; COST EFFECTIVENESS; *CONSUMER ECONOMICS; *WATER RATES; *WATER SUPPLY

ABSTRACT: THIS ARTICLE DISCUSSES THE DEVELOPMENT OF A RATE STRUCTURE THAT WILL CAPITALIZE ON BENEFITS OF DAILY ACTUAL CONSUMPTION (DAC) AND PROVIDE AN INCENTIVE FOR CONSERVING WATER.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N58 P60-61, MAY 79; UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI 48106

INSTITUTION NAME: WSSC CITIZENS ADVISORY COMMITTEE.

IRIS ACCESSION NUMBER: EW003870

PUBLICATION DATE: MAY 79

TITLE: NOTHING FISHY ABOUT USING POTASSIUM PERMANGANATE.

PERSONAL AUTHOR: PESKATOR, HOWARD

DESCRIPTOR: *MICROBIOLOGY; PUBLIC HEALTH; *WATER QUALITY; UTILITIES; WATER POLLUTION CONTROL; *CHEMICAL REACTIONS; *WATER TREATMENT; *POTASSIUM PERMANGANATE; *ACTIVATED CARBON; *ODOR PROBLEMS

ABSTRACT: DISCUSSED ARE THE TREATMENT ACTIVITIES UNDERTAKEN BY THE CITY OF WAUKEGAN, ILLINOIS TO CURB A RECURRING ODOR PROBLEM. THE PROBLEM WAS CAUSED BY MICROORGANISMS PRESENT IN THE RAW WATER AND WAS TREATED BY USE OF POTASSIUM PERMANGANATE FOLLOWED BY ACTIVATED CARBON TREATMENT.

AVAILABILITY: WATER AND SEWAGE WORKS; V126, N5, P64-67, MAY 79; UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003871

TITLE: COMPUTER TECHNOLOGY SIMPLIFIES SEWAGE COLLECTION OPERATION.

PERSONAL AUTHOR: NICHOLS, PRESTON R.

DESCRIPTOR: *TECHNOLOGY; WATER POLLUTION CONTROL; *COMPUTERS; *UTILITIES; MUNICIPALITIES; ENGINEERING; *WASTE DISPOSAL; WASTEWATER TREATMENT; *WASTEWATER COLLECTION; *MANAGEMENT; *COMPUTER PROGRAMS

ABSTRACT: DESCRIBED IS A COMPUTER PROGRAM WHICH HAS BEEN DEVELOPED TO ASSIST ENGINEERS ESTIMATE THE QUANTITY OF SEWAGE FLOW AT STRATEGIC LOCATIONS WITHIN THE TRUNK SYSTEM. THE PURPOSE IS TO MONITOR THE SYSTEM AS WELL AS PROVIDE INFORMATION FOR FUTURE DEVELOPMENTS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N5, P68-72, MAY 79; UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003872

PUBLICATION DATE: APR 79

TITLE: 1977 MARKET FOR WATER AND WASTEWATER TREATMENT EQUIPMENT.

PERSONAL AUTHOR: KOLLAR, K. L.; MATTICKS, J.

DESCRIPTOR: *EQUIPMENT; POLLUTION; *WATER POLLUTION CONTROL; *MUNICIPALITIES; UTILITIES; WASTE DISPOSAL; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 672-688P.

ABSTRACT: THIS REPORT SUMMARIZES AND COMPARES FOUR SURVEY REPORTS BASED ON THE RESPONSES OF MANUFACTURERS TO A QUESTIONNAIRE ON MANUFACTURING PLANT PRODUCTION CAPACITY AND VALUE OF SHIPMENTS OF EQUIPMENT USED ONLY IN WATER AND WASTEWATER TREATMENT PLANTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003873

PUBLICATION DATE: APR 79

TITLE: PERFORMANCE INDICATORS FOR WASTEWATER COLLECTION SYSTEMS.

PERSONAL AUTHOR: BRADY, JOHN; AND OTHERS

DESCRIPTOR: *COST EFFECTIVENESS; EQUIPMENT; POLLUTION; WATER POLLUTION CONTROL; WASTE DISPOSAL; UTILITIES; MUNICIPALITIES; INSPECTION; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION; *OPERATIONS (WASTEWATER); *PERFORMANCE INDICATORS; *MAINTENANCE

DESCRIPTIVE NOTE: 695-708P.

ABSTRACT: VARIOUS PERFORMANCE INDICATORS IN THE WASTEWATER COLLECTION SYSTEM AND TREATMENT FIELD ARE REVIEWED AND DISCUSSED. OBJECTIVES AND VARIABLES INCLUDING COSTS OF INSPECTING, OPERATING, AND REPAIRING SYSTEMS ARE IDENTIFIED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003874

PUBLICATION DATE: APR 79

TITLE: ANAEROBIC TREATMENT PROCESS STABILITY.

PERSONAL AUTHOR: KROEKER, E. J.; AND OTHERS

DESCRIPTOR: WASTE DISPOSAL; UTILITIES; WATER POLLUTION CONTROL; POLLUTION; CHEMICAL REACTIONS; BIOLOGY; TECHNOLOGY; *WASTEWATER TREATMENT; *ENERGY RECOVERY; *ANAEROBIC TREATMENT

DESCRIPTIVE NOTE: 718-727P.

ABSTRACT: REPORTED IS A TWO-PHASE LABORATORY EXPERIMENT CONDUCTED ON CONTROLLED ANAEROBIC TREATMENT PROCESSES AS A POSSIBLE MEANS OF ENERGY RECOVERY. THE HYPOTHESIS, ITS VERIFICATION, AND THE IMPLICATIONS OF THE RESULTS ARE DISCUSSED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003875

PUBLICATION DATE: APR 79

TITLE: ENERGY PRODUCTION THROUGH SLUDGE/REFUSE PYROLYSIS.

PERSONAL AUTHOR: HOWARD, F. SIDNEY; AND OTHERS

DESCRIPTOR: *WASTE DISPOSAL; *TECHNOLOGY; WATER POLLUTION CONTROL; POLLUTION; *COST EFFECTIVENESS; *FUELS; CHEMICAL REACTIONS; *WASTEWATER TREATMENT; *ENERGY; *PYROLYSIS; *SLUDGE

DESCRIPTIVE NOTE: 735-740P.

ABSTRACT: SLUDGE/REFUSE COPYROLYSIS STUDIES CONDUCTED IN CALIFORNIA ARE DISCUSSED. THE PROCESS IS SUGGESTED AS AN ALTERNATIVE TO CURRENT SLUDGE DISPOSAL PRACTICES AND IS DISCUSSED FROM THE TECHNOLOGICAL, ECONOMICAL, AND OPERATIONAL VIEWPOINTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003876

PUBLICATION DATE: APR 79

TITLE: MODELING RECYCLED SYSTEMS FOR BIOLOGICAL NITRIFICATION AND DENITRIFICATION.

PERSONAL AUTHOR: ARGAMAN, YERACHMIEL; MILLER , ELIAHU

DESCRIPTOR: *MICROBIOLOGY; WATER QUALITY; *WATER POLLUTION CONTROL; CHEMISTRY; *MATHEMATICAL MODELING; EQUIPMENT; *WASTEWATER TREATMENT; *NITROGEN

DESCRIPTIVE NOTE: 749-758P.

ABSTRACT: DESCRIBED IS A MODEL FOR A COMBINED SYSTEM OF NITROGEN REMOVAL FROM WASTEWATER BY BIOLOGICAL NITRIFICATION AND DENITRIFICATION. THE MODEL DELINEATES THE INTERELATIONSHIPS BETWEEN THE MAJOR OPERATION AND PERFORMANCE PARAMETERS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003877

PUBLICATION DATE: APR 79

TITLE: CONTROL STRATEGIES FOR THE ACTIVATED SLUDGE PROCESS.

PERSONAL AUTHOR: CASHION, BRYAN S.; AND OTHERS

DESCRIPTOR: WATER QUALITY; *WATER POLLUTION CONTROL; UTILITIES; *RESEARCH; BIOCHEMISTRY; *WASTEWATER TREATMENT; *ACTIVATED SLUDGE; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: 815-833P.

ABSTRACT: REPORTED IS A STUDY IN WHICH THE PERFORMANCE OF AN ACTIVATED SLUDGE WASTEWATER TREATMENT PLANT CONTROLLED BY THE APPLICATION OF SEVERAL FOOD-TO-MICROORGANISM CONTROL STRATEGIES WERE SIMULATED. INCLUDED ARE EVALUATIONS OF PILOT-SCALE EXPERIMENTS ON THE VARIOUS CONTROL STRATEGIES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51, N4

IRIS ACCESSION NUMBER: EW003878

PUBLICATION DATE: MAY 79
TITLE: WATER RECLAMATION SYSTEM SAVES MONEY THREE WAYS.

PERSONAL AUTHOR: TRNKA, WALTER

DESCRIPTOR: *ENERGY; RECYCLING; INDUSTRY; *WATER QUALITY; *WATER POLLUTION CONTROL; *COST EFFECTIVENESS; *EQUIPMENT; *INDUSTRY; *WATER CONSERVATION; *WATER RECLAMATION; ENERGY CONSERVATION

DESCRIPTIVE NOTE: 36-37P.

ABSTRACT: OUTLINED IS THE WATER RECLAMATION SYSTEM INCORPORATED BY A VEGETABLE PROCESSING INDUSTRY. DISCUSSION OF THE PROCESS EMPHASIZES SAVINGS OF WATER, CHEMICALS, AND ENERGY.

AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003879

PUBLICATION DATE: MAY 79

TITLE: BLACK AND DECKER CLOSES THE LOOP WITH A GREAT COST/BENEFIT RATIO.

PERSONAL AUTHOR: YOUNG, RICHARD A.

DESCRIPTOR: *RECYCLING; WATER QUALITY; *WATER POLLUTION CONTROL; WASTE DISPOSAL; *COST EFFECTIVENESS; *WASTEWATER TREATMENT; *STANDARDS; INDUSTRY

DESCRIPTIVE NOTE: 39-40P.

ABSTRACT: THIS ARTICLE REPORTS ON THE COST AND OPERATIONAL EFFECTIVENESS OF A CLOSED LOOP WATER RECYCLING SYSTEM RECENTLY PUT INTO OPERATION IN MARYLAND TO MEET THE STANDARDS REQUIRED FOR A POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003880

PUBLICATION DATE: MAY 79

TITLE: MAINTENANCE OF PLANT WATER SUPPLY SYSTEMS.

PERSONAL AUTHOR: RENNER, DONALD

DESCRIPTOR: *UTILITIES; MUNICIPALITIES; WATER QUALITY; MAINTENANCE; ENGINEERING; *WATER PIPES; *WATER SUPPLY; *FACILITIES; *PIPES

DESCRIPTIVE NOTE: 46-49P.

ABSTRACT: PREVENTIVE AND EMERGENCY MAINTENANCE OPERATIONS FOR WATER SUPPLY UTILITIES ARE DISCUSSED IN THIS ARTICLE. COMMON PROBLEMS OCCURRING IN WATER MAINS AND THEIR REPAIR ARE EMPHASIZED.
AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003881

PUBLICATION DATE: MAY 79

TITLE: RESOURCE RECOVERY REALITIES: PLANNING CAN MAKE IT WORK.

PERSONAL AUTHOR: MADORA, A. W.; SHERWIN, E. T.

DESCRIPTOR: *WASTE DISPOSAL; *RECYCLING; POLLUTION; EQUIPMENT; SAFETY; *TECHNOLOGY; *SOLID WASTES; *FACILITIES

DESCRIPTIVE NOTE: 51-53P.

ABSTRACT: DISCUSSED ARE THE DESIGN AND OPERATIONAL PROBLEMS ENCOUNTERED IN SOLID WASTE RECLAMATION PLANTS. EXAMPLES ARE PROVIDED OF MODIFICATIONS WHICH HAVE BEEN INSTALLED TO INCREASE EFFICIENCY AND SAFETY.

AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003882

PUBLICATION DATE: MAY 79

TITLE: ENERGY CONSERVATION: A BY-PRODUCT OF EFFICIENT SEWAGE TREATMENT.

PERSONAL AUTHOR: YOUNG, RICHARD A.

DESCRIPTOR: *ENERGY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *MUNICIPALITIES; UTILITIES; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *ELECTRIC POWER; POWER GENERATORS; GASES

DESCRIPTIVE NOTE: 56-57P.

ABSTRACT: DISCUSSED IS THE SUCCESSFUL OPERATION OF ON-SITE POWER GENERATION FROM WASTEWATER TREATMENT OPERATIONS IN MEDIUM-SIZED COMMUNITIES. PLANT DESIGN AND OPERATION FOR MAXIMUM GAS RECOVERY AND COST SAVINGS ARE OUTLINED.

AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003883

PUBLICATION DATE: MAY 79

TITLE: MEASURING THE QUALITY OF SURFACE WATERS AND EFFLUENTS.

PERSONAL AUTHOR: IULIUCCI, ROBERT
DESCRIPTOR: *WATER QUALITY; CHEMICAL REACTIONS; TECHNOLOGY; WATER POLLUTION CONTROL; POLLUTION; BIOLOGY; *MEASUREMENT TECHNIQUES; *STANDARDS; *EFFLUENTS

DESCRIPTIVE NOTE: 62-63P.

ABSTRACT: THIS ARTICLE PROVIDES GUIDELINES FOR TESTING THE DISCHARGE OF SUBSTANCES INTO WATERWAYS IN COMPLIANCE WITH THE 1972 WATER POLLUTION CONTROL ACT AMENDMENTS. THE USE OF EFFLUENT BIOASSAY METHODS IS DISCUSSED IN DETAIL.

AVAILABILITY: POLLUTION ENGINEERING; V11, N5

IRIS ACCESSION NUMBER: EW003884

PUBLICATION DATE: MAY 79

TITLE: PLAN THROUGHLY FOR A THOROUGH IWS.

PERSONAL AUTHOR: YAPIJAKIS, COSTAS

DESCRIPTOR: *TASK ANALYSIS; *ENVIRONMENTAL CRITERIA; MANAGEMENT; ENGINEERING; *INDUSTRY; WASTE DISPOSAL; *WATER POLLUTION CONTROL; LEGISLATION; *FACILITY PLANNING; *WASTEWATER TREATMENT; *INDUSTRIAL WASTES

DESCRIPTIVE NOTE: 73-78P.

ABSTRACT: PROVIDES GUIDELINES AND TECHNIQUES FOR DEVELOPING AN EFFICIENT AND COST-EFFECTIVE PLAN FOR CONDUCTING AN INDUSTRIAL LIQUID WASTE SURVEY IN CONJUNCTION WITH A 201 WASTEWATER FACILITY PLAN.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N5

IRIS ACCESSION NUMBER: EW003885

PUBLICATION DATE: MAY 79

TITLE: BRING DEFECTIVE PIPING BACK IN LINE.

PERSONAL AUTHOR: BERGIN, ROLAND J.

DESCRIPTOR: TECHNOLOGY; *UTILITIES; *EQUIPMENT; *MAINTENANCE; *PIPES; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 80-83P.

ABSTRACT: REPORTED IS A TECHNIQUE FOR RELINING WATER AND WASTEWATER DISTRIBUTION PIPES WITH AN IMPERMEABLE AND CORROSION RESISTANT POLYESTER RESIN TUBING. ADVANTAGES AND DISADVANTAGES INCLUDING COST AND TIME REQUIREMENTS ARE DISCUSSED.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N5

IRIS ACCESSION NUMBER: EW003886
PUBLICATION DATE: MAY 79

TITLE: PROGRAM OPEN CHANNEL FLOW DESIGN.

PERSONAL AUTHOR: MILLER, HERBERT

DESCRIPTOR: *ENGINEERING; *WASTEWATER TREATMENT; *CALCULATIONS; *CALCULATORS; *MATHEMATICAL APPLICATIONS

DESCRIPTIVE NOTE: 95-97P.

ABSTRACT: THE PROGRAM PRESENTED SHOWS HOW PROGRAMMABLE CALCULATORS CAN BE USED BY WASTEWATER ENGINEERS TO DETERMINE THE DEPTH OF FLOW FOR RECTANGULAR, TRAPEZOIDAL AND TRIANGULAR CHANNELS.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N5

IRIS ACCESSION NUMBER: EW003910

PUBLICATION DATE: MAY 79

TITLE: COMPUTER APPLICATIONS: A TOOL FOR WATER DISTRIBUTION ENGINEERING.

PERSONAL AUTHOR: CAVES, JOEL L.; EARL, THOMAS C.

DESCRIPTOR: *COMPUTERS; COST EFFECTIVENESS; *ENGINEERING;

HYDRAULICS; *MANAGEMENT; TECHNOLOGY; UTILITIES; *WATER DISTRIBUTION; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 230-235P.

ABSTRACT: THIS ARTICLE DESCRIBES ADVANCED COMPUTER TECHNIQUES FOR WATER UTILITIES PERSONNEL TO ACQUIRE ENGINEERING INSIGHT AND UNDERSTANDING OF THE COMPLEXITIES OF DISTRIBUTION SYSTEMS. COST EFFECTIVENESS IN NEW AND EXISTING FACILITIES IS STRESSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003911

PUBLICATION DATE: MAY 79

TITLE: DEVELOPING A COMPUTER PROGRAM FOR DISTRIBUTION SYSTEM ANALYSIS.

PERSONAL AUTHOR: DAVIS, ALLEN L.; JEPPSON, ROLAND W.

DESCRIPTOR: *COMPUTERS; *ENGINEERING; FACILITIES; *HYDRAULICS; *MANAGEMENT; *MODELS; *TECHNOLOGY; UTILITIES; *WATER DISTRIBUTION; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 236-241P.

ABSTRACT: DESCRIBED IS THE CURRENT STATE-OF-THE-ART FOR COMPUTER MODELING OF WATER DISTRIBUTION SYSTEMS. DISCUSSION INCLUDES TIME-SAVING INPUT AND OUTPUT DEVICES, FORMATS, AND ANALYSIS PROGRAMS FOR A VARIETY OF PROGRAMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003912

PUBLICATION DATE: MAY 79

TITLE: MODELING WATER DISTRIBUTION IN SANTA CLARA COUNTY, CALIF.

PERSONAL AUTHOR: HALL, GARTH C.; ORTOLANO, LEONARD

DESCRIPTOR: *COMPUTERS; *ENGINEERING; *HYDRAULICS; *MANAGEMENT; *MATHEMATICAL APPLICATIONS; *MODELS; *TECHNOLOGY; UTILITIES; *WATER DISTRIBUTION; WATER QUALITY; *WATER SUPPLY; WATER TREATMENT

DESCRIPTIVE NOTE: 242-247P.

ABSTRACT: THE RESULTS ILLUSTRATE WAYS IN WHICH MATHEMATICAL TECHNIQUES CAN BE USED TO ANALYZE PROBLEMS FACED BY WATER SUPPLY AGENCIES. THE STUDY EXEMPLIFIES THE APPLICATION OF BASIC MODELING CONCEPTS TO A REAL SETTING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003913

PUBLICATION DATE: MAY 79

TITLE: AN ANALYTIC APPROACH TO SCHEDULING PIPE REPLACEMENT.

PERSONAL AUTHOR: SHAMIR, URI; HOWARD, CHARLES D.

DESCRIPTOR: *COST EFFECTIVENESS; *ENGINEERING; *EQUIPMENT; *MAINTENANCE; *MANAGEMENT; MUNICIPALITIES; *PIPES; *UTILITIES; *WATER DISTRIBUTION; WATER SUPPLY

DESCRIPTIVE NOTE: 248-258P.

ABSTRACT: THIS PAPER PRESENTS AN ANALYTICAL METHOD FOR DETERMINING THE OPTIMAL TIME TO REPLACE PIPE SECTIONS IN A WATER UTILITY SUPPLY SYSTEM. THE MATHEMATICAL PROGRAM IS DESIGNED AS A SUPPLEMENTAL TOOL FOR SOUND MANAGEMENT.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003914

PUBLICATION DATE: MAY 79

TITLE: CAN OFF-PEAK PUMPING CUT UTILITY POWER COSTS?

PERSONAL AUTHOR: CHAO, JUNN-LING

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY CONSERVATION; MUNICIPALITIES; *PUMPS; *UTILITIES; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 259-263P.

ABSTRACT: THIS PAPER EXAMINES THE FEASIBILITY OF OFF-PEAK PUMPING IN EXISTING WATER DISTRIBUTION SYSTEMS AND THE ECONOMICS OF VARIOUS PUMPING AND STORAGE PATTERNS UNDER TIME-OF-USE POWER RATES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003915

PUBLICATION DATE: MAY 79

TITLE: CONTROL OF LEAD CORROSION

PERSONAL AUTHOR: PATTERSON, JAMES W.; O'BRIEN, JOSEPH E.

DESCRIPTOR: *CORROSION; *LEAD PIPES; *MAINTENANCE; *PIPES; *WATER SUPPLY; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 264-271P.

ABSTRACT: THIS ARTICLE DISCUSSES A STUDY UNDERTAKEN TO CONTROL CORROSION IN LEAD PIPES EMPLOYED IN WATER UTILITY DISTRIBUTION SYSTEMS. THE STUDY SHOWS THAT PROPER CONTROL OF

CARBON LEVELS AND PH ARE IMPORTANT TO LEAD CORROSION CONTROL.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003916

PUBLICATION DATE: MAY 79

TITLE: AIR BINDING IN PIPES.

PERSONAL AUTHOR: EDMUNDS, ROBERT C.

DESCRIPTOR: *AIR BINDING; *ENGINEERING; *EQUIPMENT; *HYDRAULICS; *MAINTENANCE; *PIPES; *PLUMBING; TECHNOLOGY; UTILITIES

DESCRIPTIVE NOTE: 272-277P.

ABSTRACT: SUMMARIZED IS STATE-OF-THE-ART RESEARCH AND BACKGROUND DATA ON AIR BINDING IN PIPES. CASE HISTORY STUDIES ARE COMPARED TO THEORETICAL MODELS. PROCEDURES FOR AIR BINDING PREVENTION ARE DESCRIBED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003917
PUBLICATION DATE: MAY 79

TITLE: TRACE ORGANICS REMOVAL BY ANION EXCHANGE RESINS.

PERSONAL AUTHOR: ANDERSON, CLAUDE T.; MAIER, WALTER J.

DESCRIPTOR: *CHEMICAL REACTIONS; COST EFFECTIVENESS; ENGINEERING; *ION EXCHANGE; *ORGANIC CHEMISTRY; ORGANIC MATERIALS; PUBLIC HEALTH; RESEARCH; TECHNOLOGY; UTILITIES; *WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 278-283P.

ABSTRACT: DISCUSSED ARE THE RESULTS OF A STUDY TO OBTAIN PROCESS DESIGN AND COST INFORMATION ON THE USE OF ION EXCHANGE RESINS TO REMOVE ORGANIC MATTER FROM SURFACE WATERS. THE PHYSICAL-CHEMICAL CHARACTERISTICS OF THE ORGANICS AND THE RESINS ARE HIGHLIGHTED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N5

IRIS ACCESSION NUMBER: EW003923

PUBLICATION DATE: 76

TITLE: S. T. O. P. FOR NON-SUPERVISORY PERSONNEL. GENERAL AND ADMINISTRATIVE INFORMATION.

DESCRIPTOR: *ACCIDENT PREVENTION; *ADMINISTRATIVE GUIDES; EQUIPMENT; *INSTRUCTIONAL MATERIALS; JOB SKILLS; POST SECONDARY EDUCATION; *SAFETY; *TEACHING GUIDES; TECHNICIANS

DESCRIPTIVE NOTE: 9P. PRICE: $1.50

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SAFETY TRAINING GUIDES DEVELOPED FOR NON-SUPERVISORY PERSONNEL. THE PROGRAM STRESSES OBSERVATION TECHNIQUES TO HELP EMPLOYEES REDUCE INJURY FROM RECOGNIZED AND UNRECOGNIZED HAZARDS. TWO TRAINING METHODS ARE USED: PROGRAMMED INSTRUCTION AND ON-THE-JOB INSPECTIONS. THIS BOOKLET CONTAINS GENERAL AND ADMINISTRATIVE INFORMATION FOR PROGRAM LEADERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS 8 COMPANY (INC.), APPLIED TECHNOLOGY DIVISION, RM. NO. 4204, BRANDYWINE BLDG., WILMINGTON, DE 19898

IRIS ACCESSION NUMBER: EW003924

PUBLICATION DATE: 76

TITLE: S.T.O.P. FOR NON-SUPERVISORY PERSONNEL. UNIT I: INTRODUCTION

DESCRIPTOR: *ACCIDENT PREVENTION; EQUIPMENT; INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *POST SECONDARY EDUCATION; *SAFETY; TECHNICIANS

DESCRIPTIVE NOTE: 17P. PRICE: (SET OF THREE-UNIT COURSES $5.50)
ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SAFETY TRAINING GUIDES DEVELOPED FOR NON-SUPERVISORY PERSONNEL. THE PROGRAM STRESSES OBSERVATION TECHNIQUES TO HELP EMPLOYEES REDUCE INJURY FROM RECOGNIZED AND UNRECOGNIZED HAZARDS. TWO TRAINING METHODS ARE USED: PROGRAMMED INSTRUCTION AND ON-THE-JOB INSPECTIONS. THIS INTRODUCTORY UNIT EXPLAINS THE TRAINING PROGRAM.

AVAILABILITY: E. I. DUPONT DE NEMOURS AND COMPANY (INC.), APPLIED TECHNOLOGY DIVISION, RM. NO. 4204, BRANDYWINE BLDG., WILMINGTON, DE 19898

IRIS ACCESSION NUMBER: EW003925

PUBLICATION DATE: 76

TITLE: S.T.O.P. FOR NON-SUPERVISORY PERSONNEL. UNIT II: PERSONAL PROTECTIVE EQUIPMENT AND POSITIONS OF PEOPLE

DESCRIPTOR: *ACCIDENT PREVENTION; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *POST SECONDARY EDUCATION; *PROTECTIVE EQUIPMENT; *SAFETY; TECHNICIANS

DESCRIPTIVE NOTE: 20P. PRICE: (SET OF THREE-COURSE UNIT $5.50)

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SAFETY TRAINING GUIDES DEVELOPED FOR NON-SUPERVISORY PERSONNEL. THE

PROGRAM STRESSES OBSERVATION TECHNIQUES TO HELP EMPLOYEES REDUCE INJURY FROM RECOGNIZED AND UNRECOGNIZED HAZARDS. TWO TRAINING METHODS ARE USED: PROGRAMMED INSTRUCTION AND ON-THE-JOB INSPECTION. THIS UNIT DISCUSSES PERSONAL PROTECTIVE EQUIPMENT AND POSITIONS OF PEOPLE.

AVAILABILITY: E. I. DUPONT DE NEMOURS AND COMPANY (INC.), APPLIED TECHNOLOGY DIVISION, RM. NO. 4204 BRANDYWINE BLDG., WILMINGTON, DE 19898

IRIS ACCESSION NUMBER: EW003926

PUBLICATION DATE: 76

TITLE: S.T.O.P. FOR NON-SUPERVISORY PERSONNEL. UNIT III: ACTIONS OF PEOPLE, TOOLS AND EQUIPMENT PROCEDURES AND ORDERLINESS.

DESCRIPTOR: *ACCIDENT PREVENTION; CLEANLINESS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *SAFETY; TECHNICIANS

DESCRIPTIVE NOTE: 20P. PRICE: (SET OF THREE-UNIT COURSES $5.50)

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SAFETY TRAINING GUIDES DEVELOPED FOR NON-SUPERVISORY PERSONNEL. THE PROGRAM STRESSES OBSERVATION TECHNIQUES TO HELP EMPLOYEES REDUCE INJURY FROM RECOGNIZED AND UNRECOGNIZED HAZARDS. TWO TRAINING METHODS ARE USED: (1) PROGRAMMED INSTRUCTION AND (2) ON-THE-JOB INSPECTION. THIS UNIT STRESSES ACTIONS OF PEOPLE, TOOLS AND EQUIPMENT, AND PROCEDURES AND ORDERLINESS.
AVAILABILITY: E. I. DUPONT DE NEMOURS AND COMPANY (INC.), APPLIED TECHNOLOGY DIVISION, RM. NO. 4204 BRANDYWINE BLDG., WILMINGTON, DE 19898

IRIS ACCESSION NUMBER: EW003927

TITLE: DIRECT ENVIRONMENTAL FACTORS AT MUNICIPAL WASTEWATER TREATMENT WORKS: EVALUATION AND CONTROL OF SITE AESTHETICS, AIR POLLUTANTS, NOISE AND OTHER OPERATION AND CONSTRUCTION FACTORS (MCD-20).

PERSONAL AUTHOR: LEFFEL, R. ERNEST

DESCRIPTOR: AIR POLLUTION CONTROL; *CONSTRUCTION; *DESIGN; *ENVIRONMENTAL INFLUENCES; *FACILITY REQUIREMENTS; LEGISLATION; *POLLUTION; PLANNING; RESOURCE MATERIALS; *WASTE DISPOSAL; WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $6.50; ORDER NO. PB 257 456; EPA-68-01-0324

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF EVALUATION AND CONTROL MEASURES DESIGNED TO ARRIVE AT ENVIRONMENTALLY SOUND PROJECTS. ENVIRONMENTAL FACTORS CONSIDERED IN THIS REPORT INCLUDE ODORS, NOISE SITE PLANNING, ARCHITECTURE, LIGHTING, AESTHETICS, SUBSURFACE CONDITIONS, CONSTRUCTION NUISANCES, AND TREATMENT DURING CONSTRUCTION. THE APPENDIX INCLUDES A LISTING OF REFERENCE LEGISLATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW003928

PUBLICATION DATE: JUN 79

TITLE: DON'T LET LIME WASTE GO TO WASTE.

PERSONAL AUTHOR: TAFLIN, CHARLES O.

DESCRIPTOR: *WASTE DISPOSAL; *WASTEWATER TREATMENT; LAND USE; RECYCLING; COST EFFECTIVENESS; *INDUSTRY; *AGRICULTURE; *TIME

DESCRIPTIVE NOTE: 18-21P.

ABSTRACT: DISCUSSED IS A STUDY UNDERTAKEN IN MINNESOTA TO USE TREATMENT PLANT WASTE LIME IN AGRICULTURAL AND INDUSTRIAL OPERATIONS. PRELIMINARY REPORTS INDICATE ECONOMIC ADVANTAGES WORTHY OF FURTHER STUDY AND DEVELOPMENT.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16, N6

IRIS ACCESSION NUMBER: EW003929

PUBLICATION DATE: JUN 79

TITLE: LAGOON AERATOR--NOT JUST A FAIR WEATHER FRIEND.
PERSONAL AUTHOR: LANDINE, R.C.; VIRARAGHAVEN, T.

DESCRIPTOR: *EQUIPMENT; *WASTEWATER TREATMENT; *TECHNOLOGY; *LAGOONS; *AERATORS

DESCRIPTIVE NOTE: 28-29P.

ABSTRACT: THIS ARTICLE REPORTS ON THE FIELD USE OF HIGH-SPEED FLOATING AERATORS IN WASTEWATER LAGOONS. THE PROBLEMS AND SUCCESSES AT SIX INSTALLATIONS IN NEW BRUNSWICK, CANADA, ARE DISCUSSED WITH SUGGESTIONS FOR EQUIPMENT MODIFICATION AND USE.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16, N6

IRIS ACCESSION NUMBER: EW003930

PUBLICATION DATE: JUN 79

TITLE: HOME IN ON WASTEWATER TREATMENT.

PERSONAL AUTHOR: NIEDRINGHAUS, LANDON

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *TECHNOLOGY; *COMPUTERS; LABORATORY ANALYSIS; EQUIPMENT; COMPUTER PROGRAMMING; *COMPUTER APPLICATIONS

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DISCUSSED ARE WAYS IN WHICH VARIOUS INEXPENSIVE COMPUTERS CAN BE UTILIZED IN THE OPERATION OF SMALL AND MEDIUM-SIZED WASTEWATER TREATMENT PLANTS. THE COMPONENTS REQUIRED AND PROGRAMMING INSTRUCTIONS ARE OUTLINED.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16, N6

IRIS ACCESSION NUMBER: EW003931

PUBLICATION DATE: JUN 79

TITLE: WASTEWATER: ENERGY FOR THE FUTURE?

PERSONAL AUTHOR: FROSTELL, BJORN

DESCRIPTOR: *ENERGY; WASTE DISPOSAL; *WASTEWATER TREATMENT; *TECHNOLOGY; BIOLOGY; *AEROBIC TREATMENT; *ANAEROBIC TREATMENT

DESCRIPTIVE NOTE: 39-45P.

ABSTRACT: AEROBIC AND ANAEROBIC TREATMENT PROCESSES ARE DISCUSSED AS POSSIBLE SOURCES OF ENERGY PRODUCTION IN THE FUTURE. SUGGESTIONS FOR CONCENTRATING WASTEWATERS ARE GIVEN BASED UPON CURRENT PRACTICES IN SWEDEN.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16, N6

IRIS ACCESSION NUMBER: EW003965
PUBLICATION DATE: 75

TITLE: HANDBOOK OF ENVIRONMENTAL CIVIL ENGINEERING.

PERSONAL AUTHOR: ZILLY, ROBERT G., ED.

DESCRIPTOR: *CIVIL ENGINEERING; ECONOMICS; *ENGINEERING; *INSTRUCTIONAL MATERIALS; LAND USE; *MANAGEMENT; *OPERATIONS RESEARCH; POST SECONDARY EDUCATION; *SANITATION; *SOILS; *STRUCTURAL ENGINEERING; *SURVEYING; *TECHNOLOGY; *TRANSPORTATION

DESCRIPTIVE NOTE: 1029P. PRICE: $59.50

ABSTRACT: THIS GUIDE PROVIDES INFORMATION ABOUT ENVIRONMENTAL MANAGEMENT, AND TECHNICAL INNOVATIONS IN THE FIELD OF CIVIL ENGINEERING. INCLUDED ARE: (1) MODERN METHODS OF SURVEYING, INCLUDING PHOTOGRAMMETRY AND LASER APPLICATIONS; (2) SOILS AND FOUNDATION ENGINEERING, INCLUDING BUILDING ON TRADITIONALLY UNDESIRABLE SITES; AND (3) STRUCTURAL, SANITARY, AND TRANSPORTATION ENGINEERING. A SEPARATE SECTION OUTLINES THE MANAGERIAL FUNCTIONS OF THE ENGINEER AND DISCUSSES ENGINEERING ECONOMICS AND A VARIETY OF OPERATIONS RESEARCH TECHNIQUES.

AVAILABILITY: VAN NOSTRAND REINHOLD CO. [illegible]625 EMPIRE DR., FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW003966

PUBLICATION DATE: 78

TITLE: MUNICIPALS' SCHOOL OF MAINTENANCE. BRINGING MAN AND MACHINE TOGETHER.

PERSONAL AUTHOR: SUTTON, PAUL F.

DESCRIPTOR: AUTOINSTRUCTIONAL AIDS; *EQUIPMENT; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MACHINERY; *MAINTENANCE; PIPES; POST SECONDARY EDUCATION; PUMPS; VALVES

DESCRIPTIVE NOTE: 134P. PRICE: $49.50

ABSTRACT: THIS DOCUMENT CONTAINS 23 SELF-INSTRUCTIONAL LESSONS DEALING WITH THE MAINTENANCE AND OPERATION OF EQUIPMENT OR EQUIPMENT COMPONENTS. EACH LESSON CONTAINS INTRODUCTORY MATERIAL, SPECIFIC CONTENT, A SUMMARY, AND A SELF-CHECK QUIZ. TOPICS COVERED INCLUDE: (1) BEARINGS AND SHAFTS; (2) CHAIN DRIVES; (3) VARIABLE SPEED REDUCERS; (4) HOSES; (5) PUMPS; (6) COMMINUTORS; AND (7) VALVES. ANSWERS TO QUIZZES ARE PROVIDED IN THE APPENDIX.

AVAILABILITY: MUNICIPALS' SCHOOL OF MAINTENANCE, P. O. BOX 3466, APOLLO BEACH, FL 33570

IRIS ACCESSION NUMBER: EW003972

PUBLICATION DATE: JUN 79
TITLE: SEQUENTIAL EXTRACTION PROCEDURE FOR THE SPECIATION OF PARTICULATE TRACE METALS.

PERSONAL AUTHOR: TESSLER, A.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHEMISTRY; *EXTRACTION; *LABORATORY TECHNIQUES; *TRACE METALS; WATER ANALYSIS

DESCRIPTIVE NOTE: 844-851P.

ABSTRACT: AN ANALYTICAL PROCEDURE INVOLVING SEQUENTIAL CHEMICAL EXTRACTIONS HAS BEEN DEVELOPED FOR THE PARTITIONING OF PARTICULATE TRACE METALS (CD, CO, CU, NI, PB, ZN, FE, AND MN) INTO FINE FRACTIONS: (1) EXCHANGEABLE, (2) BOUND TO CARBONATES, (3) BOUND TO FE-MN OXIDES, (4) BOUND TO ORGANIC MATTER, AND (5) RESIDUAL.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003973

PUBLICATION DATE: JUN 79

TITLE: DETERMINATION OF TRIHALOMETHANES IN DRINKING WATER BY GAS CHROMATOGRAPHY WITH A MICROWAVE PLASM EMISSION DETECTOR.

PERSONAL AUTHOR: QUIMBY, BRUCE D.; AND OTHERS
DESCRIPTOR: *ANALYTICAL TECHNIQUES; BROMINE; *CHROMATOGRAPHY; CHEMICAL ANALYSIS; CHEMISTRY; CHLORINE; *GAS CHROMATOGRAPHY; IODINE; LABORATORY TECHNIQUES; *TRIHALOMETHANES; *WATER ANALYSIS

DESCRIPTIVE NOTE: 873-880P.

ABSTRACT: AN ATMOSPHERIC PRESSURE HELIUM MICROWAVE EMISSION DETECTION SYSTEM FOR GAS CHROMATOGRAPHY HAS BEEN EVALUATED FOR THE ANALYSIS OF TRIHALOMETHANES IN DRINKING WATER. USING A PURGE AND TRAP TECHNIQUE WITH 10-ML SAMPLES, THE DETECTION LIMITS FOR THE TRIHALOMETHANES AND OTHER ORGANOHALIDES ARE BELOW 1 PART PER BILLION.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003974

PUBLICATION DATE: JUN 79

TITLE: MULTIELEMENT DETERMINATION IN ESTUARINE SUSPENDED PARTICULATE MATTER BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS.

PERSONAL AUTHOR: ELLIS, KATHERINE M.; CHATTOPADHYAY, AMARES

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *ELEMENTAL ANALYSIS; *ESTUARIES; LABORATORY TECHNIQUES; NEUTRON ACTIVATION ANALYSIS; *WATER ANALYSIS

DESCRIPTIVE NOTE: 942-947P.

ABSTRACT: AN INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS (INAA) METHOD HAS BEEN DEVELOPED FOR THE SIMULTANEOUS MULTIELEMENT DETERMINATIONS IN SAMPLES OF ESTUARINE SUSPENDED PARTICULATE MATTER (SPM) WEIGHING BETWEEN 0.75 AND 7.5 MG. THE INAA METHOD CONSISTS OF FOUR SEQUENTIAL IRRADIATIONS AT TWO DIFFERENT FLUXES AND COUNTING AFTER FOUR DECAY PERIODS USING A HIGH-RESOLUTION GE (LI) DETECTOR. CONCENTRATIONS OF UP TO 28 ELEMENTS HAVE BEEN MEASURED IN ESTUARINE SPM COLLECTED FROM WATER WITH SALINITY VARYING BETWEEN 2.23 AND 29.9%.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003975

PUBLICATION DATE: JUN 79

TITLE: PROPAGATION OF RANDOM ERRORS IN ESTIMATING THE LEVELS OF TRACE ORGANICS IN ENVIRONMENTAL SOURCES.

PERSONAL AUTHOR: JANARDAN, KONANUR G.; SCHAEFFER, DAVID J.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; LABORATORY TECHNIQUES; *MATHEMATICAL MODELS; *ORGANIC CHEMICALS; *WATER ANALYSIS

DESCRIPTIVE NOTE: 1,024-1,026P.
ABSTRACT: EQUATIONS FOR THE PROPAGATION OF RANDOM ERRORS (SAMPLING THROUGH ANALYSIS) FOR A TRACE ORGANIC POLLUTANT ARE DEVELOPED. THE RELATIONSHIP OF RANDOM ERRORS TO THE RESPONSE FACTOR IS DESCRIBED.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003976

PUBLICATION DATE: JUN 79

TITLE: GENERALIZED STANDARD ADDITION METHOD.

PERSONAL AUTHOR: SAXBERG, BO E. H.; KOWALSKI, B. R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *LABORATORY TECHNIQUES; *MODELS; *WATER ANALYSIS

DESCRIPTIVE NOTE: 1,031-1,038P.

ABSTRACT: THE NORMAL STANDARD ADDITION METHOD ASSUMES THAT FOR ANY ONE ANALYTE IN A SAMPLE THERE IS AN ANALYTICAL SENSOR WHICH RESPONDS TO THAT ANALYTE AND NO OTHER COMPONENT IN THE SAMPLE. WHEN THE ANALYTICAL SENSOR IS NOT COMPLETELY SELECTIVE, SO-CALLED INTERFERENCE EFFECTS RESULT WHICH CAN BE A MAJOR SOURCE OF ERROR. THE GENERALIZED STANDARD ADDITION METHOD (GSAM) PROVIDES A MEANS OF DETECTING INTERFERENCE EFFECTS, QUANTIFYING THE MAGNITUDE OF THE INTERFERENCES, AND SIMULTANEOUSLY DETERMINING ANALYTE CONCENTRATIONS.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003977

PUBLICATION DATE: JUN 79

TITLE: TRACE DETERMINATION OF PHENOLIC COMPOUNDS IN WATER BY REVERSED PHASE LIQUID CHROMATOGRAPHY WITH ELECTROCHEMICAL DETECTION USING A CARBON-POLYETHYLENE TUBULAR ANODE.

PERSONAL AUTHOR: ARMENTROUT, DAVID N.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHROMATOGRAPHY; *HYDROQUINONE; LABORATORY TECHNIQUES; ORGANIC CHEMICALS; *PHENOL; *WATER ANALYSIS

DESCRIPTIVE NOTE: 1,039-1,045P.

ABSTRACT: A LIQUID CHROMATOGRAPHIC SYSTEM, CAPABLE OF SELECTIVELY DETECTING INDIVIDUAL PHENOLIC COMPOUNDS AT 1-PPB LEVELS IN WATER, IS DESCRIBED. A POLYMERIC-CATION-EXCHANGE RESIN COLUMN, ACIDIC ACETONITRILE-WATER ELUENT, AND AN ELECTROCHEMICAL DETECTOR CONTAINING A UNIQUE CARBON-BLACK/POLYETHYLENE TUBULAR ANODE ARE EMPLOYED.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003978

PUBLICATION DATE: JUN 79

TITLE: SEMI-MICRO TUBE METHOD FOR CHEMICAL OXYGEN DEMAND.

PERSONAL AUTHOR: HIMEDAUGH, RONALD R.; SMITH, MICHAEL J.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUTOMATIC ANALYSIS; CHEMICAL ANALYSIS; *CHEMICAL OXYGEN DEMAND; *COD; *LABORATORY TECHNIQUES; *WATER ANALYSIS

DESCRIPTIVE NOTE: 1,085-1,087P.

ABSTRACT: THE STANDARD FOR COD HAS BEEN MODIFIED FOR THE TECHNICON AUTO ANALYZER BY REDUCING THE REAGENT QUANTITIES AND OXIDIZING THE SAMPLE IN A SMALL TEFLON-CAPPED CULTURE TUBE. THIS HAS RESULTED IN AN INCREASE IN PRECISION, ACCURACY, AND EASE OF ANALYSIS WITH A REDUCTION IN SPACE, COST, TIME, AND GLASSWARE.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51, N7

IRIS ACCESSION NUMBER: EW003996

PUBLICATION DATE: 76

TITLE: SEWAGE SLUDGE TREATMENT AND DISPOSAL.

PERSONAL AUTHOR: JAMES, RICHARD W.

DESCRIPTOR: DEWATERING; FERTILIZERS; FLOCCULANTS; *INCINERATION; *INSTRUCTIONAL MATERIALS; *NITRATES; *OPERATIONS (WASTEWATER); OXIDATION; *PATENTS; PHOSPHATES; POST SECONDARY EDUCATION; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *SEWAGE

DESCRIPTIVE NOTE: 339P. PRICE: $39.00

ABSTRACT: THIS BOOK PRESENTS THE TECHNICAL INFORMATION FOUND IN U. S. PATENTS RELATED TO SEWAGE SLUDGE TREATMENT AND DISPOSAL SINCE THE LATE 1950'S. LEGAL JARGON AND JURISTIC TERMINOLOGY HAS BEEN ELIMINATED. MAJOR TOPIC AREAS INCLUDE: (1) INCINERATION; (2) SLUDGE OXIDATION PROCESSES; (3) SLUDGE DEWATERING; (4) USE OF FLOCCULANTS, PHOSPHATES, AND NITRATE REMOVAL; AND (5) FERTILIZERS FROM SLUDGE. COMPANY, INVENTOR, AND U. S. PATENT NUMBER INDEXES ARE INCLUDED.

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW003997

PUBLICATION DATE: 74

TITLE: INDUSTRIAL WATER PURIFICATION.

PERSONAL AUTHOR: MARTIN, LOUIS F.

DESCRIPTOR: *CHEMICAL INDUSTRY; COAL INDUSTRY; *INDUSTRIAL WASTES; *INDUSTRY; *INSTRUCTIONAL MATERIALS; METALS; OPERATIONS (WASTEWATER); *PATENTS; *PETROLEUM INDUSTRY; POST SECONDARY EDUCATION; PULP AND PAPER INDUSTRY; SEPARATION PROCESSES; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 300P. PRICE: $36.00

ABSTRACT: THIS BOOK PRESENTS THE TECHNICAL INFORMATION FOUND IN U. S. PATENTS SINCE THE LATE 1950'S RELATED TO INDUSTRIAL WATER PURIFICATION. LEGAL JARGON AND JURISTIC PHRASEOLOGY HAVE BEEN ELIMINATED. MAJOR TOPIC AREAS INCLUDE: (1) SOLID-LIQUID SEPARATION PROCESSES; (2) OIL-WATER SEPARATION PROCESSES; (3) METALS; (4) METAL FINISHING; (5) PULP AND PAPER; (6) COAL, ORE AND SAND PROCESSING; AND (7) REFINERY OPERATIONS AND OTHER CHEMICAL PROCESSES. COMPANY, INVENTOR, AND U. S. PATENT NUMBER INDEXES ARE INCLUDED.

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW003998

PUBLICATION DATE: 78

TITLE: UNIT OPERATIONS FOR TREATMENT OF HAZARDOUS INDUSTRIAL WASTES.

PERSONAL AUTHOR: BERKOWITZ, JOAN B.; AND OTHERS

DESCRIPTOR: BIOLOGICAL TREATMENT; *CHEMICAL ENGINEERING; ECONOMICS; ENVIRONMENT; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; INDUSTRY; *INSTRUCTIONAL MATERIALS; *NEUTRALIZATION; POLLUTION; POST SECONDARY EDUCATION; PRECIPITATION; *UNIT OPERATIONS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 920P. PRICE: $42.00

ABSTRACT: THIS BOOK DESCRIBES WAYS OF COMBATING POLLUTION FROM HAZARDOUS WASTE MATERIALS THROUGH THE USE OF BASIC UNIT OPERATIONS COMMON TO CHEMICAL ENGINEERING PROCESSES. THESE UNIT OPERATIONS ARE EITHER PHYSICAL, SUCH AS NEUTRALIZATION AND PRECIPITATION, OR BIOLOGICAL, E. G., TREATMENT WITH SUITABLE ENZYMES. OVER 40 UNIT ENGINEERING PROCESSES ARE EXAMINED. MOST OF THE PROCESS DESCRIPTIONS CONTAIN THE FOLLOWING INFORMATION: (1) CONCLUSIONS AND RECOMMENDATIONS; (2) PROCESS DESCRIPTION; (3) APPLICATIONS TO DATE; (4) ENERGY, ENVIRONMENTAL ISSUES AND ECONOMICS; (5) OUTLOOK FOR INDUSTRIAL WASTE TREATMENT; AND (6) REFERENCES.

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW004038

PUBLICATION DATE: APR 77

TITLE: EFFECTIVE USE OF MEDIA. GUIDE 3.

DESCRIPTOR: *CITIZEN PARTICIPATION; *ENVIRONMENT; *MASS MEDIA; *NEWS MEDIA; POLLUTION; *PUBLIC POLICY; WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 11P.

ABSTRACT: THIS GUIDE WAS DESIGNED TO ASSIST STATE AND LOCAL WATER QUALITY MANAGEMENT AGENCIES IN EFFECTIVELY IMPLEMENTING 208 PLANNING THROUGH USE OF MEDIA. INCLUDED ARE DISCUSSIONS OF TECHNIQUES FOR DEALING WITH THE PRESS AND WITH BROADCAST MEDIA. SUGGESTIONS ARE PROVIDED FOR DEVELOPING IN-HOUSE CAPABILITY TO PRODUCE MEDIA OF INFORMATION CONCERNING CITIZEN PARTICIPATION. A STEP-BY-STEP PROGRAM FOR ACHIEVING MAXIMUN MEDIA COVERAGE THROUGHOUT A CITIZEN PARTICIPATION EFFORT IS OFFERED.

AVAILABILITY: U. S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF PUBLIC AFFAIRS, A-107, WASHINGTON, DC 20460

INSTITUTION NAME: U. S. ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW004902

PUBLICATION DATE: JUN 77

TITLE: IMPROVED LOCAL PLANNING FOR RESERVOIR-ORIENTED RECREATION OPPORTUNITIES.

PERSONAL AUTHOR: DWYER, JOHN F.; ESPESETH, ROBERT D.

DESCRIPTOR: DEVELOPMENT; LAKES; *LAND USE; *LOCAL PLANNING; *LOCAL GOVERNMENT; *MANAGEMENT; *PLANNING; *RESERVOIRS; *RECREATION; *WATER RESOURCES; *WATER RECREATION

DESCRIPTIVE NOTE: 142P. PRICE: $5.50

ABSTRACT: WATER-BASED RECREATION IS BECOMING AN INCREASINGLY IMPORTANT ASPECT OF WATER RESOURCES MANAGEMENT. HOWEVER, THERE IS A GREAT DEAL OF UNCERTAINTY ABOUT ITS LOCAL SOCIO-ECONMIC IMPACT. THIS UNCERTAINTY HAS PLAYED A KEY ROLE IN DEBATES OVER THE CONSTRUCTION OF RESERVOIRS IN ILLINOIS. WHILE MUCH ATTENTION HAS BEEN GIVEN TO PREDICTING EXPECTED IMPACTS OF RESERVOIRS, THERE HAS BEEN LITTLE INVESTIGATION EVALUATING THE EFFECTIVENESS OF VARIOUS APPROACHES TO DEALING WITH THESE LOCAL IMPACTS THAT RESULT FROM WATER RESOURCES MANAGEMENT PROJECTS. THIS STUDY LOOKS AT THE ACTUAL RECREATION INDUCED LOCAL IMPACTS OF LAKE SHELBYVILLE, A MULTI PURPOSE RESERVOIR CONSTRUCTED BY THE U. S. ARMY CORPS OF ENGINEERS IN CENTRAL ILLINOIS. THE RESERVOIR BEGAN FILLING IN 1969 AND IS A MAJOR RECREATION ATTRACTION (THREE MILLION VISITOR DAYS ANNUALLY) IN A PREDOMINATELY AGRICULTURAL REGION. THE STUDY IS EXPLORATORY; IT IDENTIFIES SIGNIFICANT IMPACTS AND SUGGESTS HOW THESE IMPACTS MAY BE PREDICTED AND DEALT WITH. SIGNIFICANT ATTENTION IS GIVEN TO IMPACTS ON LOCAL GOVERNMENT COSTS AND REVENUES AS WELL AS NEEDED INTERGOVERNMENTAL COOPERATION. IT IS CLEAR THAT LOCAL IMPACTS WERE SIGNIFICANTLY DIFFERENT FROM WHAT WAS EXPECTED.

AVAILABILITY: UNIVERSITY OF ILLINOIS, WATER RESOURCES CENTER, 2535 HYDROSYSTEMS LABORATORY, URBANA, IL 61801

IRIS ACCESSION NUMBER: EW004963

PUBLICATION DATE: OCT 78

TITLE: APPROPRIATE WELL DRILLING TECHNOLOGIES: A MANUAL FOR DEVELOPING COUNTRIES.

PERSONAL AUTHOR: LEHR, JAY H.; GASS, TYLER E.

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *DEVELOPING COUNTRIES; *EQUIPMENT; *ENGINEERING; *HISTORY; *LITERATURE REVIEWS; *TECHNOLOGY TRANSFER; *WATER SUPPLY; *WATER WELLS; *WELL DRILLING; *WATER RESOURCES

DESCRIPTIVE NOTE: 96P. PRICE: $7.00

ABSTRACT: THE LITERATURE CONTAINED IN THIS REPORT REASSESSES THE EVOLUTION OF DRILLING METHODS TO DETERMINE SOME OF THE DIVERSITY POSSIBLE IN THE WELL CONSTRUCTION PROCESS. HENCE, THE MOST APPROPRIATE WELL DRILLING TECHNOLOGY CAN BE TRANSFERRED TO DEVELOPING COUNTRIES RATHER THAN THE MOST ADVANCED OR MODERN TECHNOLOGY. THE INFORMATION IS PRESENTED IN THREE SECTIONS: (1) DISCUSSION OF HISTORICAL ACCOUNTS OF DRILLING METHODS; (2) A SURVEY OF SIMPLE PRESENT-DAY TECHNIQUES BASED ON "HISTORICAL" METHODS; AND (3) A SELECT ANNOTATED BIBLIOGRAPHY OF RELATED LITERATURE.

AVAILABILITY: NATIONAL WATER WELL ASSOCIATION, 500 WEST WILSON BRIDGE RD., WORTHINGTON, OH 43085

IRIS ACCESSION NUMBER: EW005076

PUBLICATION DATE: MAY 79

TITLE: MASS MOVEMENT RESPONSE TO FOREST MANAGEMENT IN THE CENTRAL OREGON COAST RANGES.

PERSONAL AUTHOR: CRESSWELL, STUART; AND OTHERS

DESCRIPTOR: *CLEARCUTTING; *EROSION; *FORESTRY; LANDSLIDES; *LOGGING; *OREGON; *OPERATIONS (FORESTRY); *SOIL MOVEMENTS; *TIMBER MANAGEMENT

DESCRIPTIVE NOTE: 26P.

ABSTRACT: TIMBER MANAGEMENT ACTIVITIES HAVE CLEARLY ACCELERATED THE NUMBER AND FREQUENCY OF SOIL MASS MOVEMENTS ON THE MAPLETON DISTRICT, SIUSLAW NATIONAL FOREST AS A RESULT OF THE NOVEMBER 29-DECEMBER 1, 1975 STORM. EXCLUSIVE OF ROADS, CLEARCUTTING IS THE MOST DAMAGING ACTIVITY.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, P. O. BOX 3141, PORTLAND, OR 97208

IRIS ACCESSION NUMBER: EW005078

PUBLICATION DATE: OCT 74

TITLE: WATERSHED VALUES: IMPORTANT IN LAND USE PLANNING ON SOUTHERN FORESTS.

PERSONAL AUTHOR: DOUGLASS, JAMES E.
DESCRIPTOR: *FORESTRY; HYDROLOGY; *LAND USE; *NATURAL RESOURCES; *PLANNING; *SOILS; *WATERSHEDS; *WATER RESOURCES; WATER YIELD; *WATER QUALITY

DESCRIPTIVE NOTE: 6P.

ABSTRACT: FORESTS COVER 20 TO 65 PERCENT OF THE LAND IN THE MAJOR WATER RESOURCE REGIONS OF THE SOUTH, AND FOREST MANAGEMENT PRACTICES CONTROL OR REGULATE THE VOLUME AND TIMING OF STREAM FLOW FROM THESE LANDS. ALTHOUGH WATER QUALITY IS EMERGING AS THE MAJOR WATER PROBLEM, QUANTITY AND TIMING OF STREAM FLOW ARE ALSO IMPORTANT AND INTERRELATED. PROTECTION OR IMPROVEMENT OF HYDROLOGIC PERFORMANCE OF FOREST SOILS WILL CONTINUE TO BE AN IMPORTANT CONSIDERATION IN PLANNING.

AVAILABILITY: JOURNAL OF FORESTRY, VOL. 72 NO. 10

IRIS ACCESSION NUMBER: EW005082

PUBLICATION DATE: 78

TITLE: GREAT LAKES WATER QUALITY AGREEMENT, 1978.

DESCRIPTOR: AIR POLLUTION; *DREDGING; ECOSYSTEM MANAGEMENT; EUTROPHICATION; *GREAT LAKES; *INTERNATIONAL JOINT COMMISSION; *LAND USE; *PHOSPHORUS; *SHIPPING; *TOXIC SUBSTANCES; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 22P.

ABSTRACT: THIS BOOKLET IS INTENDED TO EXPLAIN THE CONTENT AND THE PURPOSE OF THE LAKES WATER QUALITY AGREEMENT AND THE RESPONSIBILITY OF THE INTERNATIONAL JOINT COMMISSION FOR HELPING THE UNITED STATES AND CANADA ACHIEVE THEIR GOALS. THE BOOKLET CONTAINS SECTIONS ON: (1) THE ECOSYSTEM MANAGEMENT APPROACH, (2) TOXIC SUBSTANCES, (3) HANDLING HAZARDS, (4) PHOSPHORUS MANAGEMENT, (5) AIRBORNE POLLUTANTS, (6) SHIPPING, (7) RELATED LAND USE ACTIVITIES, AND (8) DREDGING.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, 100 OUELLETTE AVENUE, EIGHTH FLOOR, WINDSOR, ONTARIO N9A 6T3 CANADA

INSTITUTION NAME: INTERNATIONAL JOINT COMMISSION: UNITED STATES AND CANADA.

IRIS ACCESSION NUMBER: EW005083

TITLE: SOUTHEASTERN FORESTS AND THE PROBLEM OF NON-POINT SOURCES OF WATER POLLUTION.

PERSONAL AUTHOR: DOUGLASS, JAMES E.

DESCRIPTOR: EROSION; FORESTRY PRACTICES; *FORESTRY; FERTILIZERS; *NONPOINT SOURCE POLLUTION; *OPERATIONS (FORESTRY); PESTICIDES; WATER RESOURCES; WATER POLLUTION; *WATER POLLUTION CONTROL; WATER QUALITY
DESCRIPTIVE NOTE: 16P.

ABSTRACT: THE 1972 AMENDMENTS TO THE FEDERAL WATER POLLUTION CONTROL ACT REQUIRE THAT NON-POINT SOURCE POLLUTION FROM FORESTRY ACTIVITIES BE CONTROLLED. FORESTRY PRACTICES SUCH AS PESTICIDES AND FERTILIZER APPLICATION OR THE EROSION CAUSED BY CERTAIN OPERATIONS CAN RESULT IN CONSIDERABLE POLLUTION. THIS POLLUTION CAN BE MINIMIZED BY USING EXISTING INFORMATION. THERE IS FURTHER NEED FOR ADDITIONAL QUANTIFICATION OF POLLUTION LEVELS ASSOCIATED WITH ALTERNATIVE FORESTRY PRACTICES, AND FOR DEVELOPMENT OF NEW TECHNIQUES FOR MINIMIZING NON-POINT SOURCE POLLUTION.

AVAILABILITY: UNITED STATES DEPARTMENT OF AGRICULTURAL FOREST SERVICE, SOUTHEASTERN FOREST EXPERIMENT STATION, COWEETA HYDROLOGIC LABORATORY, FRANKLIN, NC

IRIS ACCESSION NUMBER: EW005148

PUBLICATION DATE: AUG 79

TITLE: MULTIMEDIA ENVIRONMENTAL GOALS FOR ENVIRONMENTAL ASSESSMENT; VOLUME IV. MEG CHARTS AND BACKGROUND INFORMATION SUMMARIES (CATEGORIES 13-26).

PERSONAL AUTHOR: KINGSBURY, G. L.; AND OTHERS

DESCRIPTOR: *CONTAMINANTS; ECOSYSTEMS; *ENVIRONMENTAL ASSESSMENT; *EFFLUENTS; *MULTIMEDIA; *ORGANIC COMPOUNDS; *POLLUTION; *POLLUTION CONTROL; *RESEARCH; *STANDARDS

DESCRIPTIVE NOTE: 940P. PRICE: $24.00, OR*PB80-115116

ABSTRACT: THIS VOLUME PROVIDES CHARTS AND BACKGROUND INFORMATION SUMMARIES FOR MULTIMEDIA ENVIRONMENTAL GOALS. IT ADDRESSES 586 ORGANIC COMPOUNDS. THE VOLUME OFFERS PERSPECTIVES ON THE BROAD RANGE OF CONTAMINANTS WHOSE CONTROL IS OF VITAL INTEREST TO BOTH INDUSTRY AND THE PUBLIC. IT FURTHER DEVELOPS AND DEFINES INDICATORS DESIGNATING CONTAMINANTS TO BE GIVEN PRIORITY CONSIDERATION FOR IMMEDIATE CONTROL AND FOR SUBSEQUENT RESEARCH, BRINGS TOGETHER EXISTING AND EMERGING DATA IN A FORMAT EFFICIENT FOR USE IN ENVIRONMENTAL ASSESSMENT, AND EXPLORES SOME BASIC METHODOLOGIES. MULTIMEDIA ENVIRONMENTAL GOALS ARE LEVELS OF SIGNIFICANT CONTAMINANTS OR DEGRADENTS (IN AMBIENT AIR, WATER, OR LAND OR IN EMISSIONS OF EFFLUENTS CONVEYED TO THE AMBIENT MEDIA) THAT ARE JUDGED TO BE APPROPRIATE FOR PREVENTING CERTAIN NEGATIVE EFFECTS IN THE SURROUNDING POPULATIONS OR ECOSYSTEMS, OR BE REPRESENTATIVE OF THE CONTROL LIMITS ACHIEVABLE THROUGH TECHNOLOGY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW005502
PUBLICATION DATE: AUG 75

TITLE: A LITTLE COMMON SENSE ON PESTICIDE USE.

DESCRIPTOR: *ACCIDENT PREVENTION; CHEMICALS; EQUIPMENT; HAZARDOUS MATERIALS; LABORATORY SAFETY; MATERIAL HANDLING; *PESTICIDES; *SAFETY; *SAFETY RULES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 19P.

ABSTRACT: THIS BOOKLET IS A BASIC GUIDE TO THE SAFE HANDLING AND USE OF PESTICIDES AND TOXIC CHEMICALS. SECTIONS INCLUDE: GENERAL TOXICITY CATEGORIES, SYMPTOMS OF ORGANOPHOSPHATE AND CARBAMATE POISONING, EMPLOYER OBLIGATIONS, SAFE STORAGE PRACTICES, SAFETY PROCEDURES FOR MIXING AND LOADING, MIXING PROCEDURES AND CONTAINER DISPOSAL, PERSONAL CONTACT WITH PESTICIDES, TREATMENT OF CHEMICAL SPILLS, ENVIRONMENTAL SAFETY, AND GENERAL WORKER SAFETY.

AVAILALILITY: UNIVERSITY OF CALIFORNIA'S COOPERATIVE EXTENSION, BERKELEY, CA 94720

INSTITUTION NAME: DIVISION OF AGRICULTURAL SCIENCES, UNIVERSITY OF CALIFORNIA.

IRIS ACCESSION NUMBER: EW005511

PUBLICATION DATE: 78

TITLE: HANDBOOK OF ENERGY CONSERVATION FOR MECHANICAL SYSTEMS IN BUILDINGS.

PERSONAL AUTHOR: ROOSE, ROBERT W., P. E.

DESCRIPTOR: *BUILDING DESIGN; *BUILDINGS; ENERGY; *ENERGY CONSERVATION; ENGINEERING; *FACILITY PLANNING; GUIDELINES; REFERENCE MATERIALS; *RESEARCH REPORTS; TECHNICAL ASSISTANCE; TECHNOLOGY

DESCRIPTIVE NOTE: 592P. PRICE: $39.95, ISBN 0-442-27012-7

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO AID IN THE APPLICATION OF THE PRINCIPLES AND PRACTICES OF PROVEN ENERGY CONSERVATION WHICH ARE DESCRIBED BY 44 EXPERIENCED ENGINEERS. EVERY POSSIBLE KNOWN ENERGY CONSERVATION METHOD IN THE DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE OF THE HEATING, PIPING, AIR CONDITIONING, AND VENTILATING SYSTEMS FOR ALL TYPES OF BUILDINGS IS INCLUDED IN THIS BOOK. THE HANDBOOK CONTAINS THE FOLLOWING NINE SECTIONS: THE NEED FOR ENERGY CONSERVATION; PLANNING FOR ENERGY CONSERVATION; DESIGNING THE SYSTEMS FOR ENERGY CONSERVATION; CONTROL AND SYSTEM ADJUSTMENTS FOR ENERGY CONSERVATION; OPERATION AND MAINTENANCE FOR ENERGY CONSERVATION; REPLACEMENT, MODERNIZATION, AND UPGRADING SYSTEMS FOR ENERGY CONSERVATION; PROVEN WAYS TO SAVE ENERGY; JUDGING THE RESULTS OF AN ENERGY CONSERVATION PROGRAM; AND FUTURE OPPORTUNITIES AND LIMITATIONS.

AVAILABILITY: AEE ENERGY BOOKS, DEPT. 803, 4025 PLEASANTDALE ROAD., SUITE 340 ATLANTA GA 30340

IRIS ACCESSION NUMBER: EW005513

PUBLICATION DATE: 79

TITLE: HANDBOOK OF ENERGY AUDITS.

PERSONAL AUTHOR: THUMANN, ALBERT, P. E.

DESCRIPTOR: BUILDING SYSTEMS; *CASE STUDIES; *ENERGY CONSERVATION; *FACILITY INVENTORY; *FACILITIES; *GUIDELINES; *RESEARCH REPORTS; SITE ANALYSIS; TECHNICAL ASSISTANCE

DESCRIPTIVE NOTE: 443P. PRICE: $32.00, ISBN 0-915586-18-5

ABSTRACT: THIS HANDBOOK OFFERS A STATE-OF-THE-ART REVIEW ON ENERGY AUDITING. TOPICS INCLUDE: WHAT IS AN ENERGY AUDIT?; ENERGY ACCOUNTING AND ANALYSIS; SURVEY INSTRUMENTATION; HOW TO JUSTIFY ENERGY UTILIZATION MEASURES; THE HEATING, VENTILATION, AND AIR-CONDITIONING AUDIT; THE BUILDING SYSTEM ENERGY AUDIT; THE ELECTRICAL SYSTEM ENERGY AUDIT; THE UTILITY AND PROCESS SYSTEM ENERGY AUDIT; MAINTENANCE AND ENERGY AUDITS; CASE STUDY, ENERGY AUDIT FOR EDUCATIONAL FACILITIES; CASE STUDY, ENERGY AUDIT FOR HOSPITALS; ENERGY AUDITS FOR GOVERNMENT BUILDINGS; CASE STUDY, ENERGY AUDIT FOR FOOD SERVICE FACILITIES; CERTIFICATION, QUALIFICATIONS, AND TRAINING OF ENERGY AUDITORS; AND A COMPENDIUM OF HANDY WORKING AIDS.

AVAILABILITY: AEE ENERGY BOOKS, DEPT. 803, 4025 PLEASANTDALE ROAD, ATLANTA, GA 30340

IRIS ACCESSION NUMBER: EW005660

PUBLICATION DATE: 80

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS.

PERSONAL AUTHOR: MCCLELLAND, NINA I.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *CONFERENCE PROCEEDINGS; *CASE STUDIES; MANAGEMENT; *MAINTENANCE; *ONSITE WASTEWATER TREATMENT; RECYCLING; *SEWAGE DISPOSAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 514P.

ABSTRACT: THIS VOLUME CONTAINS THE PROCEEDINGS OF THE SIXTH NATIONAL CONFERENCE ON INDIVIDUAL ONSITE WASTEWATER SYSTEMS. PAPERS PRESENTED COVERED A VARIETY OF TOPICS DEALING WITH THE KINDS OF PROBLEMS FOR WHICH ONSITE TREATMENT AND DISPOSAL SHOULD APPROPRIATELY BE CONSIDERED, SELECTION CRITERIA, MANAGEMENT STRATEGIES AND TECHNIQUES FOR REJUVENATING FAILED SYSTEMS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P. O. BOX 1425, ANN ARBOR MI 48106

IRIS ACCESSION NUMBER: EW005689
PUBLICATION DATE: NOV 80

TITLE: WORTH TRYING. HOW TO BUILD BETTER PRESTRESSED CONCRETE TANKS.

PERSONAL AUTHOR: FOSTER, WILLIAM S.

DESCRIPTOR: *CONCRETE TANKS; *CONSTRUCTION; DESIGN; ENGINEERING; MAINTENANCE; *RECOMMENDATIONS; *RESEARCH REPORTS; *TANKS

DESCRIPTIVE NOTE: 21P.

ABSTRACT: THIS ARTICLE REPORTS ON A STUDY DONE BY CH2M HILL CONSULTING ENGINEERS THAT RESULTED IN 14 RECOMMENDATIONS THAT SHOULD IMPROVE CONSTRUCTION AND INCREASE THE USEFUL LIFE OF PRESTRESSED CONCRETE TANKS. THE 14 RECOMMENDATIONS ARE LISTED.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V96 N11.

IRIS ACCESSION NUMBER: EW005690

PUBLICATION DATE: NOV 80

TITLE: LOW-PRESSURE AIR TESTINGS: HOW TIGHT A SPECIFICATION?

PERSONAL AUTHOR: WALKER, ROBERT

DESCRIPTOR: *AIR TESTING; CONSTRUCTION; EVALUATION; *INFILTRATION; *LEAKAGE; MAINTENANCE; MATHEMATICAL MODELS; *PIPES; REGULATIONS; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 51-53P.

ABSTRACT: THE AUTHOR CALLS FOR MORE STRINGENT LEAKAGE RATE LIMITS (A MAXIMUM Q VALUE OF 0.0015 CUBIC FEET PER MINUTE) TO MEET THE NEEDS OF THE 1980'S. THE ARTICLE CONTAINS AN OVERVIEW OF THE EVOLUTION OF AIR TESTING INCLUDING DETAILED DISCUSSION OF THE WORK DONE BY RAMSELER. A MODEL IS PROVIDED FOR DETERMINING INDIVIDUAL HOLDING TIMES.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V96 N11,

IRIS ACCESSION NUMBER: EW005691

PUBLICATION DATE: NOV 80

TITLE: WHOLESALE WATER PRICING: A COST-TO SERVE PLAN THAT WORKS.

PERSONAL AUTHOR: GROVER, KATHRYN

DESCRIPTOR: *CASE STUDIES; *COST EFFECTIVNESS; COSTS; *ECONOMIC FACTORS; *FINANCIAL SERVICES; MANAGEMENT; *OPERATIONS (WATER); *WATER SUPPLY; WATER DISTRIBUTION; *WATER RATES; WATER RESOURCES

DESCRIPTIVE NOTE: 65-67P.
ABSTRACT: THIS ARTICLE REPORTS ON THE PORTLAND, OREGON, BUREAU OF WATER WORKS' NEW WHOLESALE WATER FINANCING SYSTEM WHICH IS BASED AS CLOSELY AS PRAGMATIC CONSIDERATIONS ALLOW ON THE ACTUAL COSTS OF PROVIDING WATER. THE RESULTS OF THE NEW SYSTEM HAVE SHOWN THAT IT HAS ENDED COMPLAINTS ABOUT UNFAIR RATES, CREATED THE REVENUES NEEDED TO ACCOMPLISH ITS CAPITAL PROGRAM, AND ENSURES FUTURE REGIONAL WATER STABILITY.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V96 N11,

IRIS ACCESSION NUMBER: EW005696

PUBLICATION DATE: MAR 80

TITLE: TOXIC CONTROL, VOLUME IV, TOXIC CONTROL IN THE 80'S.

DESCRIPTOR: *CONFERENCE REPORTS; CONFERENCES; CLAIMS; *FEDERAL LEGISLATION; *HAZARDOUS WASTES; *LABORATORY PROCEDURES; *LEGISLATION; MODELS; OCCUPATIONAL SAFETY AND HEALTH ACT; PUBLIC HEALTH; *REGULATIONS; RESOURCE RECOVERY; TESTING; *TOXIC SUBSTANCES; *TOXIC SUBSTANCES CONTROL ACT; WASTE DISPOSAL

DESCRIPTIVE NOTE: 215P. PRICE: $28.00

ABSTRACT: THIS PUBLICATION CONTAINS THE PROCEEDINGS OF THE 4TH TOXIC CONTROL CONFERENCE HELD DECEMBER 10-11, 1979 IN WASHINGTON, DC. REPRESENTATIVES FROM GOVERNMENT, INDUSTRY, AND THE SCIENTIFIC COMMUNITY PRESENTED 27 PAPERS ON A WIDE VARIETY OF TOPICS INCLUDING: THE TOXIC SUBSTANCES CONTROL ACT AND ITS IMPLEMENTATION, TESTING AND LABORATORY PRACTICES, CANCER POLICY, DAMAGE CLAIMS AND PREVENTIVE LAW, THE RESOURCE CONSERVATION AND RECOVERY ACT, AND THE FUTURE OF TOXIC SUBSTANCES REGULATIONS.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., P. O. BOX 5918, WASHINGTON, DC 20014

INSTITUTION NAME: GOVERNMENT INSTITUTES, INC.

IRIS ACCESSION NUMBER: EW005701

PUBLICATION DATE: 76

TITLE: A NATIONAL POLICY FOR THE ENVIRONMENT.

PERSONAL AUTHOR: LIROFF, RICHARD A.

DESCRIPTOR: AGENCY ROLE; *COUNCIL ON ENVIRONMENTAL QUALITY; *ENVIRONMENT; ENVIRONMENTAL IMPACT STATEMENTS; *ENVIRONMENTAL PROTECTION; *FEDERAL LEGISLATION; *FEDERAL POLICIES; *LEGISLATION; *NATIONAL ENVIRONMENTAL POLICY ACT; *POLICIES; *REGULATIONS

DESCRIPTIVE NOTE: 288P. PRICE: $10.00

ABSTRACT: THIS BOOK EXAMINES THE NATIONAL ENVIRONMENTAL

POLICY ACT AND ITS IMPLICATIONS. CHAPTER I CONTAINS AN OVERVIEW OF NEPA AND RELATED LEGISLATION AND DISCUSSES THE TOPICS INVESTIGATED IN THE REST OF THE BOOK. CHAPTER 2 FOCUSES ON NEPA'S GENESIS IN CONGRESS. THE ROLE OF THE COUNCIL ON ENVIRONMENTAL QUALITY IS EXAMINED IN CHAPTER 3. CHAPTER 4 DISCUSSES THE ADMINISTRATIVE RESPONSE OF FEDERAL EXECUTIVE AGENCIES TO NEPA AND CEQ. CHAPTER 5 FOCUSES ON HOW ENVIRONMENTALISTS MANAGED TO GAIN ACCESS TO FEDERAL COURTROOMS AND THEIR JUDICIAL RECEPTION. NEPA LITIGATION INVOLVING WATER RESOURCE DEVELOPMENT PROJECTS IS ALSO ANALYZED IN THIS CHAPTER. CHAPTER 6 EXAMINES THE CONGRESSIONAL REACTION TO NEPA AND CITIZEN SUITS THAT WERE PROMPTED BY THE JUDICIAL ACTIVISM OF LATE 1971 AND 1972. THE FINAL CHAPTER EXAMINES PARALLELS BETWEEN THE INSTITUTIONAL RELATIONSHIPS AFFECTING NEPA IMPLEMENTATION AND THOSE THAT INFLUENCE OTHER BROAD SOCIAL POLICY LAWS.

AVAILABILITY: INDIANA UNIVERSITY PRESS, 10TH & MORTON STREETS, BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005702

PUBLICATION DATE: 79

TITLE: TOXIC SUBSTANCES CONTROL, VOLUME III, IMPLEMENTING THE REGULATORY PROGRAM.

DESCRIPTOR: *COMPLIANCE; *CONFERENCE REPORTS; ECONOMICS; *FEDERAL LEGISLATION; LABORATORY PROCEDURES; LEGISLATION; OCCUPATIONAL SAFETY AND HEALTH ACT; PUBLIC HEALTH; *REGULATIONS; TESTING; *TOXICOLOGY; *TOXIC SUBSTANCES; TOXIC SUBSTANCES CONTROL ACT

DESCRIPTIVE NOTE: 264P. PRICE: $25.00

ABSTRACT: THIS PUBLICATION CONTAINS THE PROCEEDINGS OF THE 3RD TOXIC SUBSTANCES CONTROL CONFERENCE HELD DECEMBER 4-5, 1978 IN WASHINGTON, D. C. REPRESENTATIVES FROM GOVERNMENT, INDUSTRY, AND THE SCIENTIFIC COMMUNITY PRESENTED 31 PAPERS ON A WIDE VARIETY OF TOPICS INCLUDING: TOXIC SUBSTANCES, REGULATIONS, ECONOMIC FACTORS, TOXICOLOGY, TESTING, CANCER POLICY, LABELING, AND CORPORATE RESPONSIBILITY AND COMPLIANCE.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., P. O. BOX 5918, WASHINGTON, DC 20014

INSTITUTION NAME: GOVERNMENT INSTITUTES, INC.

IRIS ACCESSION NUMBER: EW005714

PUBLICATION DATE: 79

TITLE: SANITARY ENGINEERING PROBLEMS AND CALCULATIONS FOR THE PROFESSIONAL ENGINEER.

PERSONAL AUTHOR: HARBOLD, HARRY S.

DESCRIPTOR: *CALCULATIONS; *COLLEGE SCIENCE; ECONOMICS; *ENGINEERING; *ENGINEERING PROBLEMS; *ENVIRONMENTAL ENGINEERING; FLUID FLOW; *INSTRUCTIONAL MATERIALS; MATHEMATICS; *SANITARY ENGINEERING; WATER SUPPLY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 292P. PRICE: $14.95

ABSTRACT: THIS BOOK CONTAINS OVER 100 PRACTICAL ENGINEERING PROBLEMS WITH DETAILED SOLUTIONS. THESE PROBLEMS COVER THE WHOLE SPECTRUM OF SANITARY ENGINEERING, ALTHOUGH FOUR MAIN AREAS ARE EMPHASIZED: FLUID FLOW, WATER SUPPLY AND TREATMENT, WASTEWATER TREATMENT AND ECONOMICS. THE BOOK IS INTENDED AS A STUDY GUIDE FOR THE PROFESSIONAL ENGINEERS EXAMINATION, A REFERENCE BOOK FOR THE PRACTICING ENGINEER, AND AS A SUPPLEMENT FOR COLLEGE TEXTS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., 40 BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005716

PUBLICATION DATE: DEC 78

TITLE: THE NATION'S WATER RESOURCES, 1975-2000, VOLUME I: SUMMARY.

DESCRIPTOR: *CRITICAL PROBLEMS; *FEDERAL LEGISLATION; *LEGISLATION; *NATIONAL ASSESSMENT; *NATURAL RESOURCES; *PLANNING; *PROJECTIONS; RESEARCH; *WATER SUPPLY; WATER USE; WATER CONSERVATION; *WATER RESOURCES; *WATER POLICY

DESCRIPTIVE NOTE: 86P. PRICE: $5.00

ABSTRACT: THIS VOLUME CONTAINS THE SUMMARY OF THE SECOND NATIONAL WATER ASSESSMENT PREPARED UNDER THE AUTHORITY OF THE WATER RESOURCES PLANNING ACT OF 1965. THIS NATIONAL ASSESSMENT PRESENTS FOR THE FIRST TIME NATIONALLY CONSISTENT CURRENT AND PROJECTED WATER USE AND SUPPLY INFORMATION BY REGION AND SUBREGION FOR THE ENTIRE UNITED STATES. THIS INFORMATION WILL PROVIDE BASIC DATA FOR THE ADMINISTRATION AND THE CONGRESS TO DECIDE WATER POLICY AND PROGRAM DIRECTION. INFORMATION CONTAINED IN THIS ASSESSMENT PROVIDES A BASIS TO INITIATE THOSE WATER RESOURCES ACTIONS NEEDED TO HELP ALLEVIATE THE NATIONS SERIOUS WATER AND RELATED LAND RESOURCES PROBLEMS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

INSTITUTION NAME: U. S. WATER RESOURCES COUNCIL.

IRIS ACCESSION NUMBER: EW005717

PUBLICATION DATE: NOV 80

TITLE: WINNING DESIGN SATISFIES DIVERSE NEEDS.

PERSONAL AUTHOR: JENKS, JOHN H.; WYCKOFF, BRUCE M.

DESCRIPTOR: CALIFORNIA; *DESIGN; *ENGINEERING; EQUIPMENT;

*FACILITIES; ODORS; *OPERATIONS (WASTEWATER); POLLUTION CONTROL; *REHABILITATION; *WASTEWATER TREATMENT; *WASTEWATER TREATMENT PLANTS

DESCRIPTIVE NOTE: 16-21P.

ABSTRACT: THIS ARTICLE EXAMINES HOW THE SAN MATEO, CALIFORNIA WASTEWATER TREATMENT PLANT WAS TRANSFORMED FROM A 2 MGD, 45 YEAR OLD PRIMARY TREATMENT PLANT WITH A POOR REPUTATION INTO A 13.6 MGD GOOD NEIGHBOR THAT MEETS TERTIARY TREATMENT STANDARDS. THE EXPANDED PLANT CONTROLS ODORS, HANDLES WET-WEATHER FLOWS, AND MAKES THE MOST OF EXISTING FACILITIES. INCLUDED IN THE ARTICLE ARE SPECIFIC DESIGN DATA, A PROCESS FLOW SCHEMATIC, AND A LIST OF MAJOR EQUIPMENT SUPPLIERS.

AVAILABILITY: WATER 8 WASTE ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005718

PUBLICATION DATE: NOV 80

TITLE: INNOVATION SIMPLIFIES CONSTRUCTION AND TREATMENT.

PERSONAL AUTHOR: GIDLOW, BRIEN N.

DESCRIPTOR: CASE STUDIES; *CONSTRUCTION; *DESIGN; ENGINEERING; EQUIPMENT; *FACILITIES; NEW YORK; *OPERATIONS (WASTEWATER); POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 25-27,31P.

ABSTRACT: CONSTRUCTION OBSTACLES OVERCOME, THE NEWLY-EXPANDED METROPOLITAN SYRACUSE, NY, WASTEWATER TREATMENT PLANT, WITH ITS EXTENSIVE COMPUTER CONTROL SYSTEM AND INNOVATIVE USE OF INDUSTRIAL WASTE FOR PHOSPHATE REMOVAL, IS HELPING IMPROVE THE QUALITY OF ONONDAGA LAKE. THIS ARTICLE EXAMINES THE CONSTRUCTION PROCESS IN DETAIL INCLUDING DESIGN DATA, SCHEMATIC PLANT DRAWING, AND MAJOR EQUIPMENT SUPPLIERS.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005719

PUBLICATION DATE: NOV 80

TITLE: WETLANDS IRRIGATION AIDS MAN AND NATURE.

PERSONAL AUTHOR: WILLIAMS, T. C.

DESCRIPTOR: COST EFFECTIVENESS; *DESIGN; EFFLUENTS; ENGINEERING; *ENVIRONMENTAL QUALITY; EQUIPMENT; HABITATS; *IRRIGATION; MARSHES; MICHIGAN; *TERTIARY TREATMENT; *WASTEWATER TREATMENT; *WETLANDS; WILDLIFE

DESCRIPTIVE NOTE: 28-31P.

ABSTRACT: THE ARTICLE DISCUSSES OPERATIONAL, WETLANDS IRRIGATION SYSTEMS IN MICHIGAN. THE SUCCESSFUL OPERATION OF TWO DIFFERENT TYPES OF WETLANDS IRRIGATION SYSTEMS (ONE NATURAL WETLAND, ONE ARTIFICIAL) DEMONSTRATES THAT WATER QUALITY GOALS AND PRESERVATION OF VITAL NATURAL RESOURCES ARE COMPATIBLE AT COSTS THAT ARE FEASIBLE WITHIN THE MORE LIMITED RESOURCES OF SMALL COMMUNITIES. EQUIPMENT AND SUPPLIERS ARE ALSO LISTED FOR BOTH SYSTEMS.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005720

PUBLICATION DATE: NOV 80

TITLE: COST EFFICIENT DESIGN SOLVES TOWN'S PROBLEM.

PERSONAL AUTHOR: GOODMAN, STEVEN; TRUMBALL, DALE

DESCRIPTOR: CALIFORNIA; *COST EFFECTIVENESS; *DESIGN; ENGINEERING; *FACILITIES; INDUSTRIAL WASTES; INFILTRATION/INFLOW; *OPERATIONS (WASTEWATER); ODORS; PRETREATMENT; SECONDARY TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 32-35,50-51P.

ABSTRACT: THIS ARTICLE DISCUSSES THE DESIGN OF THE WASTEWATER TREATMENT FACILITIES FOR A SMALL NORTHERN CALIFORNIA COASTAL TOWN, WHICH WAS SUFFERING FROM OVERLOADING, INFILTRATION/INFLOW, AND ODOR DIFFICULTIES. SYSTEM IMPROVEMENTS INCLUDED INSTALLING AN INDUSTRIAL WASTEWATER PRETREATMENT FACILITY FOR THE TOWN'S SEAFOOD PROCESSING INDUSTRY, UNDERTAKING AN EXTENSIVE AND COST EFFECTIVE SEWER REHABILITATION PROGRAM, AND UPGRADING AND EXPANDING THE EXISTING PRIMARY MUNICIPAL FACILITY TO SECONDARY TREATMENT. THE NEW DESIGN OFFERED A COST-EFFECTIVE SOLUTION TO THE TOWN'S PROBLEMS, BOTH IN TERMS OF CAPITAL OUTLAYS AND CONTINUING OPERATION AND MAINTENANCE COSTS.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005721

PUBLICATION DATE: NOV 80

TITLE: COMPONENT MIX MEETS TOUGH STANDARDS.

DESCRIPTOR: CASE STUDIES; COST EFFECTIVENESS; *DESIGN; *EQUIPMENT; *FACILITIES; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); POLLUTION CONTROL; STANDARDS; *TECHNOLOGICAL ADVANCEMENTS; *WASTEWATER TREATMENT; WISCONSIN

DESCRIPTIVE NOTE: 36-39P.

ABSTRACT: THIS ARTICLE EXAMINES A WASTEWATER TREATMENT PLANT'S UNUSUAL EQUIPMENT COMBINATION WHICH TREATS LARGE VOLUMES OF HIGH-STRENGTH INDUSTRIAL WASTES. COMPONENTS NORMALLY USED FOR SECONDARY LEVEL TREATMENT ACHIEVE TERTIARY LEVEL EFFICIENCIES AND MEET DISCHARGE PERMIT REQUIREMENTS IN HANDLING UP TO 1MGD OF HIGH-STRENGTH, HIGH-TEMPERATURE, WASTEWATER FROM THE HILLSHIRE FARMS MEAT PACKING AND RENDERING OPERATIONS. THE UNUSUAL DESIGN FEATURES OF THIS

AWARD-WINNING EXPANDED TREATMENT FACILITY INCLUDE: DISSOLVED AIR FLOTATION UNITS; BIO-OXIDATION TOWER; INCORPORATION OF TREATMENT COMPONENTS; AERATION BASIN; SUPERIOR TREATMENT PERFORMANCE; AND MARSH VEGETATION TREATMENT.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005722

PUBLICATION DATE: NOV 80

TITLE: FLEXIBLE SYSTEM SAVES ENERGY.

PERSONAL AUTHOR: GENNRICH, JOHN A.; GIPPS, MARGARET M.

DESCRIPTOR: CALIFORNIA; CASE STUDIES; *COST EFFECTIVENESS; *DESIGN; *ENERGY CONSERVATION; *EQUIPMENT; FACILITIES; *OPERATIONS (WASTEWATER); *PIPES; POLLUTION CONTROL; *TECHNOLOGICAL ADVANCEMENTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40-43P.

ABSTRACT: MONEY AND ENERGY ARE CONSERVED AT THE EXPANDED WASTEWATER TREATMENT PLANT IN THE CITY OF ATWATER, CALIFORNIA. THE PLANT'S UNUSUAL DESIGN CONCEPTS AND FLEXIBLE PIPING NETWORK ALLOW SHUTDOWN OF UNNEEDED TREATMENT PROCESSES, MAKE MAXIMUM USE OF EXISTING FACILITIES, AND EXCEED STRINGENT DISCHARGE REQUIREMENTS. FIVE TREATMENT MODES ALLOW THIS WASTEWATER TREATMENT PLANT TO HANDLE EXTREME HYDRAULIC AND ORGANIC VARIATIONS EFFICIENTLY.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005723

PUBLICATION DATE: NOV 80

TITLE: OUTLET WORKS DESIGN ENSURES SAFETY.

PERSONAL AUTHOR: KRUEGER, RANDALL J.

DESCRIPTOR: *ACCIDENT PREVENTION; CASE STUDIES; *COLORADO; *DAMS; *DESIGN; *EQUIPMENT; *FACILITIES; *OUTLET WORKS; PIPES; SAFETY; *SPILLWAYS; *VALVES; WATER SUPPLY

DESCRIPTIVE NOTE: 44-45,50-51P.

ABSTRACT: WORKER SAFETY WAS THE MAIN CONSIDERATION IN THE RE-DESIGN AND REPLACEMENT OF THE OLD OUTLET WORKS OF COLORADO'S GROSS DAM. THE NEW $1.7 MILLION GROSS DAM OUTLET WORKS WAS DESIGNED TO ENHANCE OPERATION AND MAINTENANCE AND ELIMINATE DESIGN DEFICIENCIES ENCOUNTERED WITH THE ORIGINAL OUTLET WORKS. THIS ARTICLE EXAMINES THE ENTIRE PROCESS WITH EMPHASIS ON THE BALL GUARD VALVES AND THE STEEL AND CONCRETE REINFORCEMENTS.

AVAILABILITY: WATER 8 WASTES ENGINEERING V17 N11

IRIS ACCESSION NUMBER: EW005724

PUBLICATION DATE: NOV 80

TITLE: PLAYGROUND AND WTP ARE GOOD NEIGHBORS.

PERSONAL AUTHOR: BAKER, RODGER P.

DESCRIPTOR: CASE STUDIES; *COMMUNITY FACILITIES; *COMMUNITY SERVICES; COSTS; DESIGN; EQUIPMENT; *FACILITIES; OPERATIONS (WATER); OHIO; *PARKS; *PLANNING; *SITE SELECTION; *WATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 47-50P.

ABSTRACT: THIS ARTICLE EXAMINES THE SIDNEY, OHIO, WATER TREATMENT PLANT WHICH WAS BUILT WITHIN A CITY PARK. THE NEW 10 MGD LIME-SODA SOFTENING PLANT EMPHASIZES TREATMENT/PROCESS FLEXIBILITY, COMPONENT RELIABILITY, AND MATERIAL DURABILITY. FROM THE TENNIS COURTS BUILT ON THE PLANT'S CLEAR WELL TO THE WAYS IN WHICH THE PLANT USES THE HYDRAULIC ADVANTAGES OF ITS HILLTOP LOCATION, THE RELATIONSHIP BETWEEN ORBISON PARK AND THE TREATMENT PLANT IS MUTUALLY BENEFICIAL.

AVAILABILITY: WATER 8 WASTES ENGINEERING, V17 N11

IRIS ACCESSION NUMBER: EW005794

PUBLICATION DATE: DEC 80

TITLE: WATER HYACINTHS FOR WASTEWATER TREATMENT.

PERSONAL AUTHOR: HAESEKER, H. W.; HELLE, STEVEN C.

DESCRIPTOR: AGRICULTURE; *CASE STUDIES; *EVALUATION; *FACILITIES; FLORIDA; *OPERATIONS (WASTEWATER); *RESEARCH REPORTS; TECHNOLOGICAL ADVANCEMENT; *WASTEWATER TREATMENT; *WATER HYACINTH

DESCRIPTIVE NOTE: 34-37P.

ABSTRACT: THIS ARTICLE EXAMINES THE POTENTIAL USE OF THE WATER HYACINTH PLANT TO TREAT WASTEWATER. A PILOT PROJECT LOCATED AT WALT DISNEY WORLD, FLORIDA, HAS BEEN DESIGNED AND CONSTRUCTED TO EVALUATE AND REFINE THIS ALTERNATIVE. THE PROJECT IS INTENDED TO DEFINE LOADING RATES FOR SECONDARY AND TERTIARY TREATMENT, REFINE OTHER DESIGN PARAMETERS FOR PRACTICAL IMPLEMENTATION OF THE SYSTEM, AND EXPLORE PRACTICAL, COST-EFFECTIVE METHODS OF HARVESTING AND UTILIZING WATER HYANCINTHS.

AVAILABILITY: PUBLIC WORKS, VIII N12

IRIS ACCESSION NUMBER: EW005795

PUBLICATION DATE: DEC 80

TITLE: ANALYSIS OF PREVENTIVE SEWER MAINTENANCE PROGRAMS.

PERSONAL AUTHOR: LIEBESKING, JUDITH E.
DESCRIPTOR: *CASE STUDIES; COST EFFECTIVENESS; *MAINTENANCE; MANAGEMENT; POLLUTION CONTROL; *PROGRAM DESCRIPTIONS; RESEARCH REPORTS; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 45-48, 76-77P.

ABSTRACT: THIS ARTICLE SUMMARIZES A FORTHCOMING DOCUMENT WHICH DESCRIBES THE COMPONENTS OF AN EFFECTIVE SEWER MAINTENANCE PROGRAM AND OUTLINES A STRATEGY FOR DEVELOPING OR UPGRADING ONE. IT IS BASED UPON THE STUDY OF SIX EXEMPLARY PROJECTS. THESE CONSIST OF TWO COMBINED SYSTEMS, TWO SMALL SYSTEMS WITH RETENTION OF A SEWER MAINTENANCE CONTRACTOR; ONE IS AN EXEMPLARY PROGRAM OF 27 YEARS' STANDING, AND THE OTHER AN EXCELLENT PROGRAM OF SIX YEARS WITH A SERIOUSLY DETERIORATED SYSTEM.

AVAILABILITY: PUBLIC WORKS, V111 N12

IRIS ACCESSION NUMBER: EW005797

PUBLICATION DATE: DEC 80

TITLE: THE JOINT TRAINING COORDINATING COMMITTEE SETS NATIONAL STANDARDS.

PERSONAL AUTHOR: HILL, WILLIAM R.

DESCRIPTOR: *EDUCATIONAL PROGRAMS; INSTRUCTION; *NEEDS ASSESSMENT; *OPERATORS; RECOMMENDATIONS; *STANDARDS; STATE ROLE; TRAINING MATERIALS; *TRAINING PROGRAMS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 33-34P.

ABSTRACT: THIS ARTICLE REVIEWS THE PUBLICATION "ROLES AND RESPONSIBILITIES FOR DEVELOPING A COMPREHENSIVE STATE WATER AND WASTEWATER OPERATOR TRAINING PROGRAM", PRODUCED BY THE NATIONAL JOINT TRAINING COORDINATING COMMITTEE. THE ARTICLE EXAMINES THE COMMITTEE'S ACTIVITIES AND GOALS, PROGRESS TO DATE, AND RECOMMENDATIONS FOR THE DEVELOPMENT OF STATE JOINT TRAINING COORDINATING COMMITTEES AND OPERATOR TRAINING PROGRAMS.

AVAILABILITY: WATER & SEWAGE WORKS, V127 N12

IRIS ACCESSION NUMBER: EW005798

PUBLICATION DATE: DEC 80

TITLE: MICHIGAN FITS TRAINING TO OPERATOR'S NEEDS.

PERSONAL AUTHOR: REDMAN, W. J.; BLOEMKER, JOHN

DESCRIPTOR: *CERTIFICATION; *COMMUNICATION; DISTRIBUTION SYSTEMS; *EDUCATIONAL PROGRAMS; EXAMINATIONS; JOB TRAINING; *MICHIGAN; *NEEDS ASSESSMENT; OPERATORS; *PROBLEM SOLVING; *TRAINING PROGRAMS; *WATER UTILITY OPERATORS

DESCRIPTIVE NOTE: 43,56,58P.

ABSTRACT: THIS ARTICLE PROVIDES AN HISTORICAL REVIEW OF THE WATER UTILITY TRAINING PROGRAMS OFFERED BY THE STATE OF MICHIGAN FROM 1934 UNTIL 1979. SPECIFIC ATTENTION IS FOCUSSED ON THE MOST RECENT TRAINING EFFORTS WHICH INCLUDE ON-SITE, INFORMAL, AND FORMAL DISTRIBUTION TRAINING PROGRAMS. RECOMMENDATIONS FROM MICHIGAN'S TRAINING EFFORTS INCLUDE MAKING OPERATORS AWARE OF THE NEED FOR COMMUNICATION, AND INCREASED TRAINING FOR PROBLEM-SOLVING.

AVAILABILITY: WATER & SEWAGE WORKS, V127 N12

IRIS ACCESSION NUMBER: EW005799

PUBLICATION DATE: DEC 80

TITLE: ST. LOUIS COUNTY STANDARDIZES PIPE AND PROCEDURES FOR RELIABILITY.

DESCRIPTOR: *CASE STUDIES; CAST IRON PIPES; *COSTS; DISTRIBUTION SYSTEMS; *DUCTILE PIPES; EQUIPMENT; *EVALUATION; *MISSOURI; *PIPES; *WATER DISTRIBUTION; *WATER UTILITIES

DESCRIPTIVE NOTE: 44-45P.

ABSTRACT: THIS ARTICLE REPORTS ON THE ST. LOUIS COUNTY WATER COMPANY'S SWITCH FROM CAST IRON PIPES TO DUCTILE IRON PIPES. THE COMPANY REPORTS GREAT SUCCESS DUE TO ITS COMMITTMENT TO STANDARDIZATION OF EQUIPMENT AND PROCEDURE, AND ITS HIGH PERFORMANCE RECORD. INCLUDED IS A COST/BENEFIT ANALYSIS AND COMPARISON SHEET FOR CAST IRON AND DUCTILE IRON PIPE.

AVAILABILITY: WATER & SEWAGE WORKS, V127 N12

IRIS ACCESSION NUMBER: EW005800

PUBLICATION DATE: DEC 80

TITLE: SIMPLE RULES MAKE TOOL USE SAFE.

DESCRIPTOR: *ACCIDENT PREVENTION; GRINDERS; *HAND TOOLS; *INSTRUCTIONAL MATERIALS; PNEUMATIC TOOLS; POWER TOOLS; *POST SECONDARY EDUCATION; *SAFETY; *SAFETY RULES; *TOOLS

DESCRIPTIVE NOTE: P46P.

ABSTRACT: THIS ARTICLE PROVIDES BASIC SAFETY RULES FOR OPERATING OR WORKING WITH TOOLS. 38 RULES ARE INCLUDED FOR HAND TOOLS, STATIONARY POWER TOOLS, GRINDING AND BUFFING WHEELS, AND PNEUMATIC TOOLS. THIS ARTICLE WAS BASED ON INFORMATION DEVELOPED BY THE DALLAS WATER UTILITIES FOR ITS EMPLOYEE BROCHURE, "BASIC SAFETY RULES AND SAFE PRACTICES HANDBOOK".

AVAILABILITY: WATER & SEWAGE WORKS, V127 N12

IRIS ACCESSION NUMBER: EW005801

PUBLICATION DATE: DEC 80

TITLE: STATISTICAL COST FUNCTION DEVELOPED FOR SEWER LINES.

PERSONAL AUTHOR: HANKE, STEVE H.; WENTWORTH, ROLAND W.

DESCRIPTOR: CONSTRUCTION; *COSTS; DESIGN; *ECONOMIC FACTORS; *MATHEMATICAL MODELS; *PLANNING; *PIPES; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: P55P.

ABSTRACT: THIS ARTICLE PROVIDES SEVERAL MATHEMATICAL MODELS FOR DEVELOPING SEWER LINES' COST FUNCTION. IN CALLING FOR AN ECONOMICS OF SCALE ASSOCIATED WITH THE CONSTRUCTION OF PIPELINES, THE AUTHORS STATE THAT THE ECONOMICS SHOULD BE ESTIMATED IN ORDER THAT THE PROPER SIZE OF A WASTEWATER LINE CAN BE DETERMINED.

AVAILABILITY: WATER 8 SEWAGE WORKS, V127 N12

IRIS ACCESSION NUMBER: EW005812

PUBLICATION DATE: APR 80

TITLE: ATTACK ON HAZARDOUS WASTE: THE CHALLENGE OF THE 1980'S.

PERSONAL AUTHOR: BECK, ECKARDT C.
DESCRIPTOR: *ENVIRONMENTAL PROTECTION AGENCY; ENVIRONMENT; *HAZARDOUS WASTES; *POLLUTION; *REGULATION; RESOURCE CONSERVATION AND RECOVERY ACT; *TOXIC CHEMICALS; TOXIC SUBSTANCES; *WASTE MANAGEMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 14P.

ABSTRACT: THIS PAMPHLET PRODUCED BY THE ENVIRONMENTAL PROTECTION AGENCY DEALS WITH THE PROBLEM OF HAZARDOUS WASTE. THE AUTHORS EXAMINE HOW WASTES ARE PRESENTLY HANDLED, PRESENT INADEQUACIES IN THE SYSTEM, THE MANDATES OF THE RESOURCE CONSERVATION AND RECOVERY ACT AND WHAT THE FUTURE HOLDS.

AVAILABILITY: US ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW005817

PUBLICATION DATE: 78

TITLE: THE USE OF HIGH-PURITY OXYGEN IN THE ACTIVATED SLUDGE PROCESS VOLUME I.

PERSONAL AUTHOR: MCWHIRTER, J. R., EDITOR

DESCRIPTOR: *ACTIVATED SLUDGE; DESIGN; *FACILITIES; *OPERATION (WASTEWATER); *OXYGEN; PURIFICATION; *POLLUTION CONTROL; TECHNOLOGY; *REFERENCE MANUALS; *SEWAGE; *SLUDGE; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 296P. PRICE: $59.95; OUTSIDE US $68.95, CATALOG NO. 5101EA

ABSTRACT: THIS VOLUME DEALS WITH WATER POLLUTION CONTROL TECHNOLOGY AND CONTAINS A COMPREHENSIVE STATE-OF-THE-ART REPORT ON THE USE OF PURIFIED OXYGEN IN THE ACTIVATED SLUDGE WASTEWATER TREATMENT PROCESS. IT IS INTENDED TO ACT AS A REFERENCE MANUAL FOR DESIGN ENGINEERS, PLANNERS, AND MANAGERS IN INDUSTRY AND GOVERNMENT.

AVAILABILITY: CRC PRESS, INC., 2000 NW 24TH STREET, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW005819

PUBLICATION DATE: DEC 80

TITLE: PUBLIC PARTICIPATION COSTS PROVE 'SMALL CHANGE' IN LONG RUN.

DESCRIPTOR: CLEAN WATER ACT; *COST EFFECTIVENESS; *DRINKING WATER; ENVIRONMENTAL PROTECTION AGENCY; *EVALUATION; *FEDERAL REGULATIONS; *PUBLIC PARTICIPATION; PUBLIC RELATIONS; *REGULATIONS; RESOURCE CONSERVATION AND RECOVERY ACT; SAFE DRINKING WATER ACT; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 13P.
ABSTRACT: THIS ARTICLE REVIEWS THE PRODUCTS OF CURRENT EPA REGULATIONS REQUIRING PUBLIC PARTICIPATION IN 201 FACILITIES PLANNING AND OTHER ENVIRONMENTAL PROGRAMS OF THE CLEAN WATER ACT, RESOURCE CONSERVATION AND RECOVERY ACT, AND THE SAFE DRINKING WATER ACT. THE ARTICLE CONCLUDES THAT THE MONEY SPENT ON THESE PUBLIC PARTICIPATION EFFORTS ARE MINIMAL WHEN COMPARED TO COSTS OF POSSIBLE LITIGATION AND PROJECT DELAYS. IN ADDITION, THE PROGRAMS FOSTER MUTUAL TRUST AMONG THE PARTICIPANTS THAT PRODUCES AN ACCEPTABLE, IMPLEMENTABLE FINAL PRODUCT.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V95 N12

IRIS ACCESSION NUMBER: EW005820

PUBLICATION DATE: DEC 80

TITLE: GOOD LOOKS, LOW MAINTENANCE GUIDE WATER TANK CHOICE.

PERSONAL AUTHOR: GROVER, KATHRYN

DESCRIPTOR: *CASE STUDIES; CONSTRUCTION; COST EFFECTIVENESS; *DESIGN; *DRINKING WATER; *EQUIPMENT; EVALUATION; *MAINTENANCE; *MANUFACTURING; *TANKS; *WATER SUPPLY; *WATER STORAGE; *WATER TANKS

DESCRIPTIVE NOTE: 19-20, 22P.

ABSTRACT: THIS ARTICLE REVIEWS THE DESIGN AND MANUFACTURING OF WATER STORAGE TANKS. THE ARTICLE PRESENTS SEVERAL CASE STUDIES AND CONCLUDES THAT UTILITY SUPERINTENDANTS PLACE A VERY HIGH PRIORITY ON STORAGE TANK LIFE-EXPECTANCY AND ON A MAINTENANCE-FREE DESIGN. IT ALSO REPORTS THAT WELDED STEEL AND PRESTRESSED CONCRETE DOMINATE THE INDUSTRY.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V95 N11

IRIS ACCESSION NUMBER: EW005821

PUBLICATION DATE: DEC 80

TITLE: TOXIC WASTE DISPOSAL BY CONTAINMENT.

PERSONAL AUTHOR: GLYSSON, E. A.

DESCRIPTOR: DISPOSAL; *EQUIPMENT; *GUIDELINES; HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *LAND DISPOSAL; *LANDFILLS; LAND USE; MANAGEMENT; MONITORING; *TOXIC WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 29-30, 32P.

ABSTRACT: LAND DISPOSAL OF THE IRREDUCIBLE RESIDUES OF TOXIC MATERIALS IS THE REALITY OF THE HAZARDOUS WASTE PROBLEM FACING LANDFILL MANAGERS TODAY. THIS ARTICLE PRESENTS A GUIDE TO TOXIC WASTE DISPOSAL BY CONTAINMENT IN LANDFILLS. AMONG THE TOPICS DISCUSSED ARE PERMEABILITY, CONTAINER LINERS, LEACHATE COLLECTION, AND LANDFILL CLOSURE AND POST-CLOSURE MANAGEMENT.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V95 N12

IRIS ACCESSION NUMBER: EW005822

PUBLICATION DATE: DEC 80

TITLE: STORMWATER DETENTION BASINS MUST CONTROL MORE THAN RUNOFF.

PERSONAL AUTHOR: SCHIMMENTI, FRANK G.

DESCRIPTOR: *DESIGN; DRAINAGE; FACILITIES; *GUIDELINES; *HEALTH CONDITIONS; PIPES; PLANNING; SEWERS; *STORMWATER; *SURFACE RUNOFF; *STAGNATING WATER; *WATER COLLECTION

DESCRIPTIVE NOTE: 41-42P.

ABSTRACT: THIS ARTICLE CLAIMS THAT MANY STORMWATER DETENTION, RETENTION, AND RECHARGE STRUCTURES SATISFY REGULATIONS REQUIRING NO INCREASE IN RUNOFF RATES, BUT IGNORE THE NUISANCE RAMIFICATIONS OF STAGNATING WATER. THE ARTICLE REPORTS ON A PROGRAM THAT IS ATTEMPTING TO RESOLVE THIS BY INTRODUCING MUNICIPAL OFFICIALS TO THE MOSQUITO-BREEDING POTENTIAL OF RUNOFF-CONTROL FACILITIES AND BY DEVELOPING A SET OF DRAFT GUIDELINES THAT SUGGEST DESIGN CRITERIA THAT WILL PREVENT THESE BASINS FROM BECOMING NUISANCES.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V95 N12

IRIS ACCESSION NUMBER: EW005834

PUBLICATION DATE: JAN 79

TITLE: ENVIRONMENTAL ASSESSMENT OF CONSTRUCTION GRANTS PROJECTS.

DESCRIPTOR: ALTERNATIVE TECHNOLOGY; *CONSTRUCTION GRANTS PROGRAM; *CONSTRUCTION; COST EFFECTIVENESS; DESIGN; *ENVIRONMENTAL ASSESSMENT; *ENVIRONMENTAL IMPACT; *FACILITIES; *FEDERAL AID; *NATIONAL ENVIRONMENTAL POLICY ACT; *PLANNING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58P. MULTIPLE COPIES MAY BE PURCHASED FROM: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA 22161

ABSTRACT: THIS HANDBOOK IS DESIGNED TO AID GRANTEES IN THE PREPARATION OF ENVIRONMENTAL ASSESSMENTS FOR WASTEWATER TREATMENT FACILITIES. IT WILL BE PARTICULARY HELPFUL TO THOSE GRANTEES WHO ARE UNFAMILIAR WITH THE CONSTRUCTION GRANTS PROGRAM AND THE PREPARATION OF NATIONAL ENVIRONMETAL POLICY ACT (N. E. P. A.) DOCUMENTS. ITS INTENT IS TO IDENTIFY THE DATA THAT IS REQUIRED TO EVALUATE AND THE PROCEDURES TO BE FOLLOWED TO ANALYZE THE ENVIRONMENTAL IMPACTS ASSOCIATED WITH EACH ALTERNATIVE PLAN BEING CONSIDERED FOR THE TREATMENT WORKS.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8 FFS), CENTRALIZED MAILING LISTS SERVICES, BUILDING 41B DENVER FEDERAL CENTER, DENVER, CO 80225

IRIS ACCESSION NUMBER: EW005836

PUBLICATION DATE: AUG 79

TITLE: WASTEWATER: IS MUSKEGON COUNTY'S SOLUTION YOUR SOLUTION?

PERSONAL AUTHOR: WALKER, JOHN M.

DESCRIPTOR: AGRICULTURE; *CASE STUDIES; *COST EFFECTIVENESS; COSTS; ECONOMICS; *FACILITIES; INDUSTRIAL WASTES; IRRIGATION; *LAND APPLICATION; *LAND TREATMENT; MICHIGAN; *OPERATIONS (WASTEWATER); PLANNING; POLLUTION CONTROL; *PROBLEM SOLVING; RESOURCE RECOVERY; SEWERS; *WASTEWATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 50P.

ABSTRACT: MUSKEGON COUNTY HAS INNOVATIVELY TRANSFORMED A COMPREHENSIVE IDEA FOR USING AND RENOVATING WASTEWATER BY LAND TREATMENT INTO A VERY COST EFFECTIVE OPERATIONAL SYSTEM. THEIR LAND TREATMENT SYSTEM HAS NEARLY ELIMINATED INDUSTRIAL AND MUNICIPAL POLLUTANTS FROM THE 27 MILLION GALLONS OF WASTEWATER TREATED EACH DAY, THEREBY PROTECTING THE COUNTY'S LAKES AND STREAMS AS WELL AS LAKE MICHIGAN. IT HAS USED WASTEWATER AS WATER AND FERTILIZER TO GROW OVER A

QUARTER MILLION BUSHELS OF CORN IN 1975 ON PREVIOUSLY UNPRODUCTIVE LAND, THEREBY REDUCING OPERATING COSTS. THIS SUCCESSFUL WASTEWATER SYSTEM IS ALSO SERVING AS A FOCAL POINT IN THE COUNTY'S EFFORTS TO REVITALIZE THEIR ECONOMY. THIS BOOKLET HAS BEEN PREPARED FOR BOTH URBAN AND INDUSTRIAL COMMUNITIES THAT FACE WASTEWATER AND ECONOMIC PROBLEMS AND THAT MIGHT BENEFIT FROM THE MUSKEGON COUNTY EXPERIENCE.

AVAILABILITY: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION 5, 230 SOUTH DEARBORN STREET, CHICAGO, IL 60604

IRIS ACCESSION NUMBER: EW005838

PUBLICATION DATE: DEC 80

TITLE: TASK FORCE RECOMMENDATIONS.

DESCRIPTOR: ENGINEERING; FEDERAL PROGRAMS; *GOVERNMENT ROLE; *MANAGEMENT; *POLICY; POLLUTION CONTROL; PROBLEM SOLVING; *RECOMMENDATIONS; REGULATIONS; WATER QUALITY; *WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 11P.

ABSTRACT: THIS ARTICLE LISTS THE RECOMMENDATIONS OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS WATER POLICY TASK FORCE. TOPICS ADDRESSED IN THE RECOMMENDATIONS INCLUDE: THE WATER RESOURCES COUNCIL, BASIN COMMISSIONS, EPA WATER QUALITY PROGRAMS, FUNDING, WATER MANAGEMENT POLICY AND PROGRAMS, AND LEGAL CONCERNS.
AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005839

PUBLICATION DATE: DEC 80

TITLE: THE U.S. IS ENTERING A NEW ERA IN WATER SUPPLY MANAGEMENT.

PERSONAL AUTHOR: MORRIS, JOHN W., P.E.

DESCRIPTOR: *CONSERVATION; ECONOMIC FACTORS; ENERGY; FUTURE; *MANAGEMENT; *POLICY; *PLANNING; *RECOMMENDATIONS; REGULATIONS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 12-14P.

ABSTRACT: CONTAINED IN THIS ARTICLE IS A LOOK AT THE FUTURE OF WATER RESOURCES MANAGEMENT ACCORDING TO JOHN W. MORRIS, FORMER CHIEF OF ENGINEERS, U.S. ARMY CORPS OF ENGINEERS. HE PREDICTS THAT WE ARE ON THE THRESHOLD OF A NEW ERA OF WATER RESOURCES MANAGEMENT IN WHICH CONSERVATION WILL DOMINATE. HE INDICATES THAT CONSERVATION MAY TURN OUT TO BE ONE OF THE MOST INFLUENTIAL FEATURES OF WATER RESOURCES MANAGEMENT AND DEVELOPMENT IN THE FUTURE. MORRIS ALSO DISCUSSES COST-SHARING ISSUES, EVALUATION OF NATIONAL WATER SUPPLY NEED, AND PROJECT PLANNING AND CONSTRUCTION.

AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005840

PUBLICATION DATE: DEC 80

TITLE: CONGRESS, EPA MOVE TO PROTECT ENDANGERED GROUNDWATER AS HAZARDOUS WASTE CONTAMINATION SPREADS.

PERSONAL AUTHOR: PROFESSIONAL ENGINEER STAFF REPORT

DESCRIPTOR: DRINKING WATER; *GROUNDWATER; *HAZARDOUS WASTES; INDUSTRIAL WASTES; *LEGISLATION; *POLLUTION CONTROL; *REGULATIONS; STANDARDS; SUPERFUND; TOXIC SUBSTANCES; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 17-19P.

ABSTRACT: THIS ARTICLE REPORTS ON THE EFFORTS OF CONGRESS AND THE USEPA TO ENACT LEGISLATION TO PREVENT AND CLEAN UP GROUNDWATER POLLUTION. ATTENTION IN THIS EFFORT IS FOCUSED ON TOXIC WASTES FROM ABANDONED DUMPS AND INDUSTRIAL SITES. DISCUSSED ARE EXISTING GROUNDWATER PROTECTION LAWS, THE SUPERFUND LEGISLATION, AND THE PROPOSED STANDARDS FOR LANDFILLS, SURFACE IMPOUNDMENTS, AND LANDFARMS DESIGN.

AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005841
PUBLICATION DATE: DEC 80

TITLE: GOVERNMENT/INDUSTRY COOPERATION CRUCIAL TO HAZARDOUS WASTE SOLUTIONS.

PERSONAL AUTHOR: SHAPIRO, IRVING S.

DESCRIPTOR: *COOPERATIVE PLANNING; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; LEGISLATION; *MANAGEMENT; *POLLUTION CONTROL; PROBLEM SOLVING; *REGULATIONS; RESOURCE CONSERVATION AND RECOVERY ACT; SUPERFUND; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 20-23P.

ABSTRACT: CONTAINED IN THIS ARTICLE IS A LOOK AT THE PROBLEM OF HAZARDOUS WASTES ACCORDING TO THE CHAIRMAN OF E.I. DU PONT DE NEMOURS AND COMPANY. HE ASCERTAINS THAT HAZARDOUS WASTES CAN BEST BE MANAGED IF INDUSTRY, GOVERNMENT, AND THE PUBLIC COOPERATE RATHER THAN CONFRONT EACH OTHER. HE FURTHER CONTENDS THAT HAZARDOUS WASTES ARE MANAGEABLE THROUGH INDUSTRIAL DESIGN AND PROPER DISPOSAL PRACTICES. AN EXAMINATION OF THE RESOURCE CONSERVATION AND RECOVERY ACT AND THE SUPERFUND LEGISLATION IS ALSO INCLUDED.

AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005842

PUBLICATION DATE: DEC 80

TITLE: HAZARDOUS WASTE CONTAMINATION: THE THREAT TO U.S. GROUNDWATER SUPPLY.

DESCRIPTOR: DRINKING WATER; *GROUNDWATER; *HAZARDOUS WASTES; HYDROLOGY; POLICY; RECOMMENDATIONS; *TOXIC SUBSTANCES; *WASTE DISPOSAL; *WATER POLLUTION; WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 25-26P.

ABSTRACT: EXCERPTS FROM THE INTERIM REPORT ON GROUNDWATER CONTAMINATION OF THE HOUSE COMMITTEE ON GOVERNMENT OPERATIONS ARE CONTAINED IN THIS ARTICLE. THE REPORT CONCLUDES THAT MANY MANMADE AND NATURALLY OCCURING TOXIC MATERIALS WHICH ARE DUMPED INTO THE GROUND DO NOT BREAK DOWN BUT ARE STORED AND EVENTUALLY TRANSPORTED TO AREAS WHERE THEY MAY POISON DRINKING WATER, LAKES, AND STREAMS. THE REPORT IS SUMMARIZED IN SIX MAJOR CONCLUSIONS AND THREE RECOMMENDATIONS.

AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005843

PUBLICATION DATE: DEC 80

TITLE: SYNFUELS: AN ENERGY SOLUTION, CAUSES A WATER PROBLEM.

DESCRIPTOR: COAL GASIFICATION; COAL INDUSTRY; *ENERGY; *ENVIRONMENTAL IMPACTS; MINING; OIL SHALE; POLICY; PRODUCTION TECHNIQUES; REPORTS; REQUIREMENTS; SITING; *SYNTHETIC FUELS; *WATER QUALITY; WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 28-29P.

ABSTRACT: EXCERPTS FROM A U.S. DEPARTMENT OF ENERGY STUDY ON SYNTHETIC FUELS AND THE ENVIRONMENT ARE CONTAINED IN THIS ARTICLE. THE STUDY REPORTS THAT THE DEVELOPMENT OF A MAJOR SYNFUELS INDUSTRY WILL HAVE SIGNIFICANT IMPACT ON WATER SUPPLY QUALITY AND QUANTITY IN AREAS WHERE FACILITIES ARE PLANNED. THE ARTICLE PRESENTS INFORMATION ON WATER AVAILABILITY REQUIREMENTS AND EXAMINES THE SITING OF SYNFUEL PLANTS IN EASTERN AND WESTERN REGIONS AND THE ASSOCIATED ENVIRONMENTAL PROBLEMS.

AVAILABILITY: PROFESSIONAL ENGINEER, V50 N4

IRIS ACCESSION NUMBER: EW005853

PUBLICATION DATE: 79

TITLE: PRELIMINARY TREATMENT FOR WASTEWATER FACILITIES.

DESCRIPTOR: DOMESTIC WASTEWATER; *EQUIPMENT; *FACILITIES; INDUSTRIAL WASTEWATER; *MAINTENANCE; MUNICIPALITIES; ORDINANCES; *OPERATIONS (WASTEWATER); *PRELIMINARY TREATMENT; SEWERS; *TROUBLE SHOOTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 50P. PRICE: $6.00

ABSTRACT: THE PRELIMINARY TREATMENT OF BOTH DOMESTIC AND INDUSTRIAL WASTEWATER IS STANDARD PRACTICE IN TODAYS WASTEWATER TREATMENT INDUSTRY. BESIDES SURVEYING CURRENT MUNICIPAL PRACTICES, THIS MANUAL PROVIDES TROUBLE-SHOOTING GUIDES FOR THE OPERATION AND MAINTENANCE OF EACH PROCESS. ALSO INCLUDED IS A DISCUSSION OF SEWER USE ORDINANCES THAT CAN CONTROL INCOMING FLOWS AND CONCENTRATIONS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATION ORDER DEPARTMENT, 2626 PENNSYLVANIA AVENUE, NW, WASHINGTON, DC 20037

INSTITUTION NAME: TASK FORCE ON PRELIMINARY TREATMENT.

IRIS ACCESSION NUMBER: EW005854

PUBLICATION DATE: 79

TITLE: WASTEWATER SAMPLING FOR PROCESS AND QUALITY CONTROL.

DESCRIPTOR: *EVALUATION; MONITORING; *OPERATIONS (WASTEWATER); *QUALITY CONTROL; *SAMPLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 103P. PRICE: $12.00

ABSTRACT: THIS PRACTICE MANUAL ADDRESSES THE TOPIC OF PLANT OPERATIONAL CONTROL. PROPER WASTEWATER SAMPLING IS THE INITIAL STAGE IN ANY PROCESS OR QUALITY CONTROL SCHEME. THEREFORE, THIS VOLUME CONTAINS INFORMATION ON SAMPLING THEORY, EQUIPMENT AND PRESERVATION, AND ALSO ON DATA COLLECTION, RECORDING AND ANALYSIS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATION ORDER DEPARTMENT, 2626 PENNSYLVANIA AVENUE, NW, WASHINGTON, DC 20037

INSTITUTION NAME: TASK FORCE ON PLANT OPERATIONAL CONTROL.

IRIS ACCESSION NUMBER: EW005870

PUBLICATION DATE: 80

TITLE: PUBLIC OPINION ON ENVIRONMENTAL ISSUES. RESULTS OF A NATIONAL PUBLIC OPINION SURVEY.

DESCRIPTOR: *ENVIRONMENTAL ISSUES; *ENVIRONMENTAL PROTECTION; ENERGY CONSERVATION; ENDANGERED SPECIES; GOVERNMENT REGULATIONS; HAZARDOUS WASTES; NUCLEAR POWER; *OPINIONS; *PUBLIC OPINION; *POLLUTION; *RESEARCH; *SURVEYS; *VALUES

DESCRIPTIVE NOTE: 49P.

ABSTRACT: THIS STUDY SURVEYED UNITED STATES PUBLIC OPINION ON A VARIETY OF ENVIRONMENTAL ISSUES. THESE INCLUDED HAZARDOUS WASTE DISPOSAL, ENERGY CONSERVATION, POLLUTION CONTROL, NUCLEAR POWER DEVELOPMENT AND PROTECTING ENDANGERED SPECIES. THE RESULTS OF THE SURVEY WERE ANALYZED TO LEARN ABOUT KEY PUBLIC OPINION TRENDS OVER THE PAST DECADE, TO OBTAIN INFORMATION ABOUT NEW AREAS OF ENVIRONMENTAL CONCERN AND THE DEGREE OF SUPPORT FOR ENVIRONMENTAL PROTECTION, AND TO DETERMINE PUBLIC RESPONSES TO DIFFICULT CHOICES BETWEEN ENVIRONMENTAL PROTECTION AND OTHER VALUES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW005871

PUBLICATION DATE: JUL 80

TITLE: OUR NATION'S LAKES.

PERSONAL AUTHOR: HORWITZ, ELINOR LANDER

DESCRIPTOR: *ENVIRONMENTAL PROTECTION AGENCY; ENVIRONMENT; FRESHWATER ECOSYSTEMS; HYDROLOGY; *LAKES; *LIMNOLOGY; *PUBLIC PARTICIPATION; *POLLUTION; WASTEWATER; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 58P.

ABSTRACT: THIS BOOK DEALS WITH THE PROBLEM OF WATER POLLUTION AND THE EFFECT THAT IT IS HAVING ON AMERICA'S FRESHWATER LAKES. A SIGNIFICANT PORTION OF LAKE POLLUTION ORIGINATES FROM MISMANAGEMENT OF LAND AND WASTEWATER AT THE LOCAL LEVEL. SUCH SOURCES OF POLLUTION CAN BE CONTROLLED AT THAT LEVEL IF THE PUBLIC IS ADEQUATELY INFORMED OF LAKE POLLUTION PROBLEMS, SOURCES AND EFFECTIVE SOLUTIONS. THIS BOOK IS DESIGNED TO INFORM THE GENERAL PUBLIC ABOUT LAKES AND THIS PROBLEM. IT PRESENTS EXAMPLES OF THESE PROBLEMS AND SOME SOLUTIONS. IT PRESENTS A DISCUSSION OF AVAILABLE SOURCES OF FINANCIAL AND TECHNICAL ASSISTANCE OFFERED BY THE FEDERAL GOVERNMENT. THE ENVIRONMENTAL PROTECTION AGENCY HAS AWARDED FINANCIAL ASSISTANCE TO STATES OVER THE PAST FIVE YEARS TO STUDY AND CLEAN UP OVER 200 LAKES UNDER ITS CLEAN LAKES PROGRAM.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW005875

PUBLICATION DATE: AUG 80

TITLE: A COMPANION GUIDE TO THE ALTERNATIVE IS CONSERVATION.

DESCRIPTOR: *CONSERVATION; *COMMUNITY PROGRAMS; CLEAN WATER ACT; LAND USE; *MANAGEMENT; RECYCLING; *WATER RESOURCES; *WASTEWATER TREATMENT; *WATER PROBLEMS; *WATER SUPPLY

DESCRIPTIVE NOTE: 38P. TO ORDER THIS PUBLICATION PLEASE INDICATE THIS NUMBER FRD-12 AND THE TITLE OF PUBLICATION

ABSTRACT: THIS BOOKLET IS A COMPANION GUIDE TO THE FILM, "THE ALTERNATIVE IS CONSERVATION," AND DEALS WITH THE SUBJECT OF DIFFERENT COMMUNITY APPROACHES TO WASTEWATER MANAGEMENT OR WATER SUPPLY PROBLEMS. TOPICS COVERED INCLUDE CREATIVE CONSERVATION METHODS, PROTECTING THE RESOURCE, CHOOSING A COMMUNITY STRATEGY, THE CLEAN WATER ACT (1977), AND HOUSEHOLD DEVICES TO CONSERVE WATER. A LIST OF RESOURCES FOR FURTHER INFORMATION IS INCLUDED AT THE BACK.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS), CENTRALIZED MAILING LISTS SERVICES, BUILDING 41, DENVER FEDERAL CENTER, DENVER, CO 80225

IRIS ACCESSION NUMBER: EW005876

PUBLICATION DATE: FEB 80

TITLE: RESIDENTIAL WATER CONSERVATION: AN ANNOTATED BIBLIOGRAPHY.

DESCRIPTOR: *ABSTRACTS; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; CONSERVATION; COST EFFECTIVENESS; DESIGN; ENERGY CONSERVATION; REFERENCE MATERIALS; REGIONAL CHARACTERISTICS; *RESIDENTIAL USE; *WATER SUPPLY; *WATER CONSERVATION; WATER RESOURCES; *WATER USE

DESCRIPTIVE NOTE: 113P.

ABSTRACT: THIS ANNOTATED BIBLIOGRAPHY IS THE RESULT OF A LITERATURE SEARCH DONE FOR A COMPREHENSIVE STUDY ON RESIDENTIAL WATER CONSERVATION. A SEARCH OF FIVE SELECTED SUBJECTS HAS PRODUCED A COMPREHENSIVE LISTING OF PUBLICATIONS ON: (1) WATER CONSERVATION TIPS, (2) WATER CONSERVATION DEVICES, (3) WATER CONSERVATION PROJECTS, (4) ECONOMICS, AND (5) REGIONAL VARIABLES. OTHER USEFUL INFORMATION IS SUMMARIZED FROM THE REFERENCES AND INCLUDED ON: COMMUNITY WATER CONSERVATION PROJECTS, COST/SAVINGS, ENERGY/WATER SAVINGS, AND RESIDENTIAL WATER USE.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8BRC), CENTRALIZED MAILING LIST SERVICES, BUILDING 41, DENVER FEDERAL CENTER, DENVER, CO 80225

INSTITUTION NAME: U. S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW005879

PUBLICATION DATE: 80

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS, VOLUME I.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *TEACHING GUIDES; *TEXTBOOKS; *TRAINING PROGRAMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 450P. PRICE: $20.00

ABSTRACT: THIS MANUAL WAS ORIGINALLY DEVELOPED TO SERVE AS A HOME-STUDY COURSE BUT CONTINUED USE BY OPERATOR INSTRUCTORS PROVED ITS EFFECTIVENESS AS A TEXTBOOK IN THE CLASSROOM. THE PURPOSES OF THIS PROGRAM ARE: (1) TO DEVELOP QUALIFIED TREATMENT PLANT OPERATORS; (2) TO EXPAND THE ABILITIES OF EXISTING OPERATORS; AND (3) TO PREPARE OPERATORS FOR CERTIFICATION EXAMINATIONS. CHAPTER TITLES IN THIS VOLUME ARE: (1) THE TREATMENT PLANT OPERATOR; (2) WHY TREAT WASTES; (3) WASTEWATER TREATMENT FACILITIES; (4) RACKS, SCREENS, COMMINUTORS, AND GRIT REMOVAL; (5) SEDIMENTATION AND FLOTATION; (6) TRICKLING FILTERS; (7) ROTATING BIOLOGICAL CONTACTORS; (8) ACTIVATED SLUDGE; (9) WASTE TREATMENT PONDS; AND (10) DISINFECTION AND CHLORINATION. EACH CHAPTER BEGINS WITH AN INTRODUCTION AND THEN DISCUSSES START UP, DAILY OPERATION, INTERPRETATION OF LAB RESULTS AND POSSIBLE APPROACHES TO SOLVING OPERATIONAL PROBLEMS. AN INDEX, GLOSSARY, AND A FINAL EXAMINATION ARE ALSO INCLUDED.

AVAILABILITY: CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, KENNETH D. KERRI, DEPARTMENT OF CIVIL ENGINEERING, 6000 J STREET, SACRAMENTO, CA 98519

IRIS ACCESSION NUMBER: EW005880

PUBLICATION DATE: 80

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS, VOLUME II.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; MAINTENANCE; *MANAGEMENT; MATHEMATICS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; RECORDS; SAFETY; SKILL DEVELOPMENT; *TEACHING GUIDES; *TEXTBOOKS; *TRAINING PROGRAMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 630P. PRICE: $20.00

ABSTRACT: THIS MANUAL WAS ORIGINALLY DEVELOPED TO SERVE AS A HOME-STUDY COURSE BUT CONTINUED USE BY OPERATOR INSTRUCTORS PROVED ITS EFFECTIVENESS AS A TEXTBOOK IN THE CLASSROOM. THIS VOLUME STRESSES INFORMATION NEEDED BY OPERATORS OF LARGER CONVENTIONAL TREATMENT FACILITIES. THIS VOLUME WILL ALSO BE HELPFUL TO OPERATORS IN SUPERVISORY AND MANAGEMENT POSITIONS. CHAPTER TITLES IN THIS VOLUME ARE: (1) ACTIVATED SLUDGE; (2) SLUDGE DIGESTION AND SOLIDS HANDLING; (3) EFFLUENT DISPOSAL; (4) PLANT SAFETY AND GOOD HOUSEKEEPING; (5) MAINTENANCE; (6) LABORATORY PROCEDURES AND CHEMISTRY; (7) BASIC ARITHMETIC AND TREATMENT PLANT PROBLEMS; (8) ANALYSIS AND PRESENTATION OF DATA; AND (9) RECORDS AND REPORT WRITING. AN INDEX, GLOSSARY, AND A FINAL EXAMINATION ARE ALSO INCLUDED.

AVAILABILITY: CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, KENNETH D. KERRI, DEPARTMENT OF CIVIL ENGINEERING, 6000 J STREET, SACRAMENTO, CA 98519

IRIS ACCESSION NUMBER: EW005881

PUBLICATION DATE: 80

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS, VOLUME III.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: *FACILITIES; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *SOLID WASTES; *TEACHING GUIDES; *TEXTBOOKS; *TRAINING PROGRAMS; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 870P. PRICE: $30.00

ABSTRACT. THIS MANUAL WAS ORIGINALLY DEVELOPED TO SERVE AS A HOME-STUDY COURSE BUT CONTINUED USE BY OPERATOR INSTRUCTORS PROVED ITS EFFECTIVENESS AS A TEXTBOOK IN THE CLASSROOM. THIS VOLUME CONTAINS INFORMATION FOR OPERATORS WITH ADVANCED WASTE TREATMENT PROCESSES, COMPLEX SOLIDS HANDLING AND DISPOSAL FACILITIES, AND INDUSTRIAL WASTES TO TREAT. CHAPTER TITLES IN THIS VOLUME INCLUDE: (1) ODOR CONTROL; (2) ACTIVATED SLUDGE; (3) SOLIDS HANDLING AND DISPOSAL; (4) SOLIDS REMOVAL FROM SECONDARY EFFLUENTS; (5) PHOSPHORUS REMOVAL; (6) WASTEWATER RECLAMATION; (7) INSTRUMENTATION; (8) INDUSTRIAL WASTE MONITORING; (9) INDUSTRIAL WASTE TREATMENT; AND (10) SUPPORT SYSTEMS. AN INDEX, GLOSSARY, AND A FINAL EXAMINATION ARE ALSO INCLUDED.

AVAILABILITY: CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, KENNETH D. KERRI, DEPARTMENT OF CIVIL ENGINEERING, 6000 J STREET, SACRAMENTO, CA 95819

IRIS ACCESSION NUMBER: EW005882

PUBLICATION DATE: 80

TITLE: OZONE AND CHLORINE DIOXIDE TECHNOLOGY FOR DISINFECTION OF DRINKING WATER.

PERSONAL AUTHOR: KATZ, J.

DESCRIPTOR: CASE STUDIES; *CHLORINATION; CHLORINE DIOXIDE; COSTS; *DISINFECTION; *DRINKING WATER; ENGINEERING; EQUIPMENT; *INSTRUCTIONAL MATERIALS; MEASUREMENT; MICROBIOLOGY; *OZONE; *TECHNOLOGICAL ADVANCEMENT; *WATER TREATMENT; *WATER QUALITY; WATER SUPPLY

DESCRIPTIVE NOTE: 659P. PRICE: $36.00

ABSTRACT: THIS BOOK IS COMPOSED OF TWO REPORTS WHICH REVIEW PERTINENT INTERNATIONAL TECHNOLOGY ON OZONATION AND CHLORINE DIOXIDE USAGE AS WELL AS MICROBIOLOGICAL AND ENVIRONMENTAL ASPECTS OF THEIR USE. SIGNIFICANT ADVANCES NOTED IN THE ENGINEERING OF WATER SUPPLY TREATMENT EQUIPMENT AND SYSTEMS WERE IDENTIFIED AND DISCUSSED IN DETAIL. ATTENTION WAS PAID TO ON-SITE DATA COLLECTION FOR DESIGN OF SYSTEMS AND TO PROCEDURES FOR WATER QUALITY ANALYSIS. SPECIAL EMPHASIS WAS PLACED ON DOCUMENTATION OF THE CURRENT KNOWLEDGE OF OXIDATION PRODUCTS OF OZONE AND CHLORINE DIOXIDE

APPLICATION. COST ANALYSES ARE ALSO INCLUDED AND, WHILE DATA FROM DIFFERENT SOURCES MAY VARY, THE INFORMATION USED IN COSTING AND THE COMPARISONS EVOLVED WILL BE OF VALUE TO THE READER.

AVAILABILITY: NOYES DATA CORPORATION, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW005883

PUBLICATION DATE: 78

TITLE: WATER TECHNOLOGY FOR HOSPITAL ENGINEERS.

PERSONAL AUTHOR: MILLER, C. EUGENE

DESCRIPTOR: COOLING; ECONOMICS; *HOSPITAL ENGINEERS; HEATING; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *POST SECONDARY EDUCATION; *SANITATION; WASTE DISPOSAL; WASTEWATER; *WATER SUPPLY; *WATER TECHNOLOGY; WATER SYSTEMS

DESCRIPTIVE NOTE: 239P. PRICE: $35.00

ABSTRACT: THIS BOOK IS INTENDED AS A GUIDE FOR HOSPITAL ENGINEERS IN THEIR TRAINING IN WATER TECHNOLOGY. TOPICS INCLUDE THE PHYSICAL AND CHEMICAL PROPERTIES OF WATER, WATER DISTRIBUTION AND SUPPLY, WATER ANALYSIS AND TESTING, WATER HEATING AND COOLING SYSTEMS, AND WASTEWATER DISPOSAL IN HOSPITALS.

AVAILABILITY: GARLAND PUBLISHING, INC., 136 MADISON AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005884

PUBLICATION DATE: 80

TITLE: HANDBOOK OF BIOLOGICAL WASTEWATER TREATMENT; EVALUATION, PERFORMANCE, AND COST.

PERSONAL AUTHOR: BENJES, HENRY H., JR.

DESCRIPTOR: *BIOLOGICAL TREATMENT; *COSTS; *DESIGN; *ENGINEERING; *FACILITIES; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WASTEWATER); PLANNING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 176P. PRICE: $19.95

ABSTRACT: THIS HANDBOOK IS INTENDED FOR DESIGNERS AND ENGINEERING PLANNERS TO ASSIST IN THE EVALUATION OF ALTERNATIVE BIOLOGICAL WASTEWATER TREATMENT SYSTEMS. THIS BOOK PROVIDES DESIGN INFORMATION FOR BIOLOGICAL TREATMENT UNITS AND THE PERFORMANCE CAPABILITY OF WELL-OPERATED PLANTS. CAPITAL COSTS FOR VARIOUS UNIT PROCESSES ARE PRESENTED. THESE COST DATA WILL BECOME LESS VALUABLE IN FUTURE YEARS DUE TO INFLATION; HOWEVER, THE TECHNIQUES USED, IF KEPT UP TO DATE, OFFER THE USER METHODS TO ESTABLISH COST INFORMATION. CHAPTERS INCLUDE: WASTEWATER CHARACTERIZATION; BIOLOGICAL WASTE TREATMENT; SUSPENDED GROWTH SYSTEMS; ATTACHED GROWTH SYSTEMS; PROCESS PERFORMANCE; PLANT DESIGN CONSIDERATIONS; ESTIMATING PROJECT COSTS; OPERATION AND MAINTENANCE REQUIREMENTS; AND APPLICATION OF ESTIMATING DATA.

AVAILABILITY: GARLAND PUBLISHING, INC., 136 MADISON AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005885

PUBLICATION DATE: 79

TITLE: A TRAINER'S WORKBOOK IN EVALUATING THE IMPACT OF PUBLIC PROGRAMS.

PERSONAL AUTHOR: WISE, LOIS RECASCINO

DESCRIPTOR: *EVALUATION; *INSTRUCTIONAL MATERIALS; PROGRAM EVALUATION; *PUBLIC PARTICIPATION; *PUBLIC PROGRAMS; *RESEARCH DESIGN; TEACHING GUIDES; *TRAINING MANUALS; *WORKBOOKS

DESCRIPTIVE NOTE: PRICE: $15.00

ABSTRACT: THIS WORKBOOK WAS DEVELOPED TO MEET A WIDE RANGE OF TRAINING NEEDS IN THE AREA OF PUBLIC PROGRAM EVALUATION. SIX MAIN SECTIONS INCLUDE: EVALUATION IN PUBLIC ADMINISTRATION; THE PROGRAM GOALS; THE HYPOTHESIS; DATA COLLECTION; DATA ANALYSIS; AND EVALUATION RESEARCH DESIGNS. EACH SECTION CONTAINS A NUMBER OF INSTRUCTIONAL UNITS WHICH IDENTIFY THE LEARNING OBJECTIVE, CRITICAL ISSUES, PROVIDE A LEARNING ACTIVITY, A LIST OF MATERIALS PROVIDED IN THE WORKBOOK, AND A LIST OF REFERENCES. ALSO INCLUDED IN THIS WORKBOOK IS A SERIES OF VISUAL AIDS WHICH CORRESPOND TO THE INSTRUCTIONAL UNITS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC & ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH STREET, BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005886

PUBLICATION DATE: 79

TITLE: TRAINING PERSONNEL FOR COST ALLOCATION AND INDIRECT COST STUDIES.

PERSONAL AUTHOR: FARQUAHAR, WILLIAM E.; BUHER, JAMES H.

DESCRIPTOR: BUDGETING; *BUDGETS; *COSTS; *GRANTS; *INDIRECT COSTS; *INSTRUCTIONAL MATERIALS; REPORT WRITING; *TRAINING PROGRAMS

DESCRIPTIVE NOTE: 83P. PRICE: $12.50

ABSTRACT: THIS DOCUMENT IS INTENDED TO PROVIDE THE READER WITH SUFFICIENT INFORMATION TO UNDERSTAND THE CONCEPT OF INDIRECT COST, BE ABLE TO DETERMINE WHETHER A PLAN SHOULD BE IMPLEMENTED, AND IF NECESSARY, WHERE TO GO FOR ADDITIONAL ASSISTANCE. SECTIONS INCLUDE: ADVANTAGES OF AN INDIRECT COST

RATE, CONSIDERATIONS FOR ESTABLISHING AN INDIRECT COST RATE, ASSISTANCE IN ESTABLISHING INDIRECT COST RATES, MECHANICS OF SETTING RATES, PROPOSAL SUBMISSION AND TYPES OF INDIRECT COST AGREEMENTS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC & ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH STREET, BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005887

PUBLICATION DATE: 78

TITLE: PRODUCTIVITY AND PROGRAM EVALUATION IN THE PUBLIC SECTOR: AN ANNOTATED BIBLIOGRAPHY.

PERSONAL AUTHOR: WISE, CHARLES R.; NORTON, ORVILLE

DESCRIPTOR: ADMINISTRATION; *ANNOTATED BIBLIOGRAPHIES; *CASE STUDIES; COMMUNITY SERVICES; *EFFICIENCY; *EVALUATION; GOVERNMENT; MANAGEMENT; METHODOLOGY; *PRODUCTIVITY; *PUBLIC SERVICES; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 112P. PRICE: $12.50

ABSTRACT: THIS ANNOTATED BIBLIOGRAPHY SUMMARIZES SOME OF THE DEVELOPMENTS IN EFFORTS TO MEASURE EFFICIENCY AND EFFECTIVENESS IN THE PUBLIC SECTOR. THIS BOOK IS ORGANIZED INTO THREE BASIC SECTIONS. THE FIRST IS CONCERNED WITH DIFFERENT ASPECTS OF THE PROCESSES INVOLVED IN PRODUCTIVITY AND PROGRAM EVALUATION. IT CONTAINS MATERIAL FOCUSING ON PERSPECTIVES AND OVERVIEWS, METHODOLOGY, MANAGEMENT, AND CONCLUDES WITH A SUBSECTION ON PRODUCTIVITY BARGAINING. THE NEXT SECTION ADDRESSES ACTIVITIES BY FEDERAL, STATE, AND LOCAL LEVELS OF GOVERNMENT. DISCUSSIONS OF PROCESSES, ASSETS, AND PROBLEMS CHARACTERISTIC OF EACH LEVEL'S ACTIVITY ARE HIGHLIGHTED. THE LAST SECTION TREATS THE MEASUREMENT OF EFFICIENCY AND EFFECTIVENESS IN A NUMBER OF PUBLIC SERVICE AREAS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC & ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005888

PUBLICATION DATE: 78

TITLE: EVALUATING THE IMPACT OF PUBLIC PROGRAMS: A GUIDE TO EVALUATIVE RESEARCH.

PERSONAL AUTHOR: WISE, LOIS RECASCINO

DESCRIPTOR: *EVALUATION; *EVALUATION METHODS; GUIDES; *MANUALS; PROGRAM DESCRIPTIONS; PUBLIC ADMINISTRATION; *PUBLIC PARTICIPATION; *RESEARCH DESIGN; RESEARCH REVIEWS; STATE OF THE ART REVIEWS

DESCRIPTIVE NOTE: 60P. PRICE: $12.50

ABSTRACT: THIS MANUAL IS DESIGNED TO OFFER AN OVERVIEW OF THE EVALUATION PROCESS FOR ALL THE POTENTIAL PARTICIPANTS IN THE EVALUATION EFFORT. IT HAS DISTILLED AND CONSOLIDATED THE INFORMATION FOUND IN MANY MORE ADVANCED AND MORE DETAILED BOOKS ON IMPACT EVALUATION. THE GOAL OF THIS MANUAL IS TO CONVEY SUFFICIENT UNDERSTANDING OF EVALUATIVE RESEARCH TO PROVIDE THE READERS WITH A GOOD BASIC UNDERSTANDING OF THE PROCESS WITHOUT OVERWHELMING THEM WITH DETAILS, CONDITIONS, AND SOPHISTICATED TECHNIQUES. SECTIONS INCLUDE: EVALUATION IN PUBLIC ADMINISTRATION; THE PROGRAM GOALS; THE HYPOTHESIS; DATA COLLECTION; DATA ANALYSIS; AND EVALUATION RESEARCH DESIGNS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC & ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005889

PUBLICATION DATE: 78

TITLE: REQUESTING FUNDING SUPPORT FOR TRAINING.

PERSONAL AUTHOR: MARTIN, DEBORAH ALIX; MERRITT, JOHN S.

DESCRIPTOR: BUDGETING; *CONTRACTS; *FUNDING; *GRANTS; *GUIDES; *INSTRUCTIONAL MATERIALS; PLANNING; *PROPOSALS; *TRAINING PROGRAMS; *WRITING

DESCRIPTIVE NOTE: 68P. PRICE: $12.50

ABSTRACT: THIS MANUAL IS PRIMARILY WRITTEN FOR PEOPLE IN THE PUBLIC SECTOR WHO HAVE RESPONSIBILITIES FOR DEVELOPING TRAINING PROGRAMS AND WHO ARE NEW TO THE PROCESS OF OBTAINING EXTERNAL FUNDING. THE GOALS OF THIS BOOK ARE TO: (1) ENCOURAGE PUBLIC SECTOR TRAINERS TO EXPAND THEIR SERVICES BY EXPLAINING THE PROCESSES INVOLVED IN SEEKING EXTERNAL FUNDING; (2) IMPROVE THE RATIO OF ACCEPTED PROPOSALS TO REJECTED PROPOSALS; AND (3) EXPAND THE RANGE OF FUNDING SOURCES USED TO SUPPORT TRAINING.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC & ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH STREET, BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005890

PUBLICATION DATE: 74

TITLE: EVALUATION GUIDELINES FOR TRAINING PROGRAMS.

PERSONAL AUTHOR: CHABOTAR, KENT J.; LAD, LAWRENCE J.

DESCRIPTOR: *EVALUATION; *GUIDELINES; *INSTRUCTION; *PROGRAM EVALUATION; *RESEARCH; *TRAINING PROGRAMS

DESCRIPTIVE NOTE: 253P. PRICE: $12.50

ABSTRACT: EVALUATION GUIDELINES FOR TRAINING PROGRAMS PROVIDE TRAINING OFFICERS WITH THE EXPERTICE REQUIRED TO

EVALUATE THEIR OWN PROGRAMS IN A LIMITED AMOUNT OF TIME AND WITHOUT THE USE OF EXPENSIVE, OUTSIDE CONSULTANTS. THIS BOOKLET DEALS WITH THE GUIDELINES AND INCLUDES CHAPTERS ON CRITERIA FOR EFFECTIVE EVALUATION, RESEARCH DESIGN, EVALUATION MEASURES AND DATA ANALYSIS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC 8 ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005891

PUBLICATION DATE: 74

TITLE: ASSESSMENT OF TRAINING NEEDS.

PERSONAL AUTHOR: LEONARD, EDWIN C., JR.

DESCRIPTOR: *GUIDES; *INSTRUCTIONAL MATERIALS; JOB ANALYSIS; JOB TRAINING; *MANPOWER DEVELOPMENT; *MANPOWER NEEDS; *MANAGEMENT; *NEEDS ASSESSMENT; *PLANNING; STATE OF THE ART REVIEWS; *TRAINING

DESCRIPTIVE NOTE: 132P. PRICE: $12.50

ABSTRACT: THE MIDWEST INTERGOVERNMENTAL TRAINING COMMITTEE IDENTIFIED AS A CENTRAL CONCERN OF PERSONS RESPONSIBLE FOR PLANNING AND CONDUCTING PUBLIC MANAGEMENT PROGRAMS THE NEED FOR THE DEVELOPMENT OF A GUIDELINE FOR THE ASSESSMENT OF TRAINING NEEDS. THIS PUBLICATION PULLS TOGETHER ALL KNOWN METHODS FOR IDENTIFYING TRAINING NEEDS IN ORDER THAT STATE AND LOCAL TRAINING OFFICERS WOULD HAVE IT READILY AVAILABLE IN A SYSTEMATIZED FORMAT. SECTIONS INCLUDE: TRAINING NEEDS DETERMINATION, ORGANIZATIONAL ANALYSIS, JOB ANALYSIS, MANPOWER ANALYSIS, AND TRAINING AND INSTRUCTIONAL SYSTEMS DESIGN.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC 8 ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005892

TITLE: PRODUCTIVITY AND PROGRAM EVALUATION: CHALLENGE FOR THE PUBLIC SERVICE.

PERSONAL AUTHOR: WISE, CHARLES R.; MCGREGOR, EUGENE B.

DESCRIPTOR: CASE STUDIES; *CONFERENCE REPORTS; EMPLOYEE RELATIONS; EVALUATION; *GOVERNMENT ROLE; INSTRUCTION; *MANAGEMENT; MEASUREMENT; *PRODUCTIVITY; *PROGRAM EVALUATION; *STATE OF THE ART REVIEWS; *TRAINING PROGRAMS

DESCRIPTIVE NOTE: 178P. PRICE: $12.50

ABSTRACT: THIS PUBLICATION IS A COMPILATION OF MATERIAL PRESENTED AT THE CONFERENCE ON PRODUCTIVITY AND PROGRAM EVALUATION HELD UNDER THE AUSPICES OF THE MIDWEST INTERGOVERNMENTAL TRAINING COMMITTEE AND THE MIDWEST OFFICE OF THE NATIONAL COMMISSION ON PRODUCTIVITY AND WORK QUALITY.

THE PURPOSE OF THE CONFERENCE WAS TWOFOLD: (1) TO ASSESS THE ART OF GOVERNMENTAL PRODUCTIVITY MEASUREMENT AND IMPROVEMENT EFFORTS AND ITS IMPORTANCE TO PROGRAM EVALUATION; AND (2) TO DEVELOP GUIDELINES FOR IMPROVING MANAGEMENT, PERSONNEL, AND TRAINING SERVICES SUPPORTIVE OF PRODUCTIVITY IMPROVEMENT IN STATE AND LOCAL GOVERNMENT.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC 8 ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005893

TITLE: REQUESTING FUNDING SUPPORT FOR TRAINING. INSTRUCTOR'S GUIDE.

PERSONAL AUTHOR: MARTIN, D. ALIX; MERRITT, JOHN S.

DESCRIPTOR: BUDGETING; *CONTRACTS; *FUNDING; *GRANTS; *GUIDES; *INSTRUCTIONAL MATERIALS; PLANNING; *POST SECONDARY EDUCATION; *PROPOSALS; TRAINING PROGRAMS; WRITING; *WORKSHOPS

DESCRIPTIVE NOTE: 25P. PRICE: $7.00

ABSTRACT: THIS INSTRUCTOR'S GUIDE FOR CONDUCTING PROPOSAL WRITING WORKSHOPS IS BASED UPON THE MIDWEST INTERGOVERNMENTAL TRAINING COMMITTEE (MITC) PUBLICATION: "REQUESTING FUNDING SUPPORT FOR TRAINING: A GUIDE TO PLANNING, CONTACTS, AND STYLE." THE INSTRUCTOR'S MANUAL EMPHASIZES THE PROCESS FOR CONDUCTING THE WORKSHOPS AND REFERS TO REQUESTING FUNDING SUPPORT FOR THE CONTENT OF THE WORKSHOP. THIS MANUAL IS DIVIDED INTO TWO SECTIONS. THE FIRST SECTION DESCRIBES PREPARATION PROCEDURES AND MATERIALS NEEDED FOR A PROPOSAL WRITING WORKSHOP. THE SECOND SECTION CONTAINS SEVERAL WORKSHOP FORMATS, TOPICS FOR DISCUSSION, AND STRATEGIES FOR TEACHING THE IMPORTANT CONCEPTS.

AVAILABILITY: INDIANA UNIVERSITY, MITC PUBLICATIONS, SCHOOL OF PUBLIC 8 ENVIRONMENTAL AFFAIRS, 400 EAST SEVENTH ST., BLOOMINGTON, IN 47405

IRIS ACCESSION NUMBER: EW005895

PUBLICATION DATE: 80

TITLE: ESSENTIALS OF GROUND-WATER HYDROLOGY PERTINENT TO WATER-RESOURCES PLANNING.

DESCRIPTOR: *COMPREHENSIVE PLANNING; *GROUNDWATER; *HYDROLOGY; *MANAGEMENT; *PLANNING; REGIONAL PLANNING; REGIONAL MANAGEMENT; WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 38P.

ABSTRACT: THIS BULLETIN PRESENTS THE ESSENTIAL ASPECTS OF GOUND-WATER HYDROLOGY PERTINENT TO WATER-RESOURCES PLANNING AND DISCUSSES ADVANCES IN ANALYSIS OF GROUNDWATER SYSTEMS AND THE FACTORS INFLUENCING THE MANAGEMENT AND ADMINISTRATION OF THE GROUNDWATER RESOURCE. THIS REPORT WILL

BE USEFUL TO THOSE UNFAMILIAR WITH GROUNDWATER ANALYSIS, UTILIZATION, AND MANAGEMENT BECAUSE IT INTRODUCES THE PRINCIPLES AND INTERRELATIONSHIPS THAT MUST BE CONSIDERED IN THE MANAGEMENT AND PROTECTION OF THE RESOURCE.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

INSTITUTION NAME: U. S. WATER RESOURCES COUNCIL.

IRIS ACCESSION NUMBER: EW005899

PUBLICATION DATE: AUG 80

TITLE: HOUSING INNOVATION HANDBOOK FOR APPALACHIA.

DESCRIPTOR: *APPALACHIA; BUILDING MATERIALS; CASE STUDIES; *CONSTRUCTION; CONSTRUCTION INDUSTRY; *DESIGN; *ENERGY CONSERVATION; HANDBOOKS; *HOUSING; INNOVATION; *REFERENCE MATERIALS; *RESOURCE GUIDES; SEWAGE SYSTEMS; *TECHNOLOGICAL ADVANCEMENTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 400P.

ABSTRACT: THIS HANDBOOK IS AN ENCYCLOPEDIA OF TESTED BUILDING MATERIALS, CONSTRUCTION TECHNIQUES, HOUSING TECHNOLOGIES AND DESIGNS THAT ARE INTENDED TO DECREASE THE COST OF HOME CONSTRUCTION AND MAINTENANCE. THE HANDBOOK IS DIVIDED INTO FIVE SECTIONS. SECTION A CONSISTS OF AN INTRODUCTION. IN SECTION B, EACH PRODUCT IS DESCRIBED, A SOURCE FOR MORE INFORMATION OR TECHNICAL ASSISTANCE IS GIVEN, AND FOR ALMOST ALL PRODUCTS THERE IS A DISCUSSION OF ADVANTAGES AND DISADVANTAGES AND THE LOCATIONS OF WHERE THE PRODUCT IS USED IN APPALACHIA. SECTION C GIVES THE NAMES AND ADDRESSES OF NUMEROUS HOUSING RESOURCES IN EACH OF THE 13 APPALACHIAN STATES. THE NAMES AND ADDRESSES OF NATIONAL AND REGIONAL RESOURCE ORGANIZATIONS ARE LISTED IN SECTION D. THE FINAL SECTION IS A BIBLIOGRAPHY OF HOUSING RELATED RENEWABLE ENERGY TECHNOLOGIES, CONSERVATION PRODUCTS, NEW MATERIALS, CONSTRUCTION TECHNIQUES, WATER/SEWAGE SYSTEMS AND SITE DEVELOPMENT. THE CURRENT PRICE IS INCLUDED FOR MANY OF THE DOCUMENTS.

AVAILABILITY: APPALACHIAN REGIONAL COMMISSION, OFFICE OF THE EXECUTIVE DIRECTOR, 1666 CONNECTICUT AVENUE, N.W., WASHINGTON, DC 20235

IRIS ACCESSION NUMBER: EW005901

PUBLICATION DATE: NOV 80

TITLE: CONGRESSIONAL GUIDANCE NEEDED ON FEDERAL COST SHARE OF WATER RESOURCE PROJECTS WHEN PROJECT BENEFITS ARE NOT WIDESPREAD.

PERSONAL AUTHOR: COMPTOLLER GENERAL OF THE UNITED STATES

DESCRIPTOR: CORPS OF ENGINEERS; *COST BENEFIT ANALYSIS; COSTS; *FEDERAL PROGRAMS; POLICY; PROJECTS; *PROGRAM EVALUATION; *RECOMMENDATIONS; SOIL CONSERVATION SERVICE; *WATER PROJECTS; *WATER RESOURCES

DESCRIPTIVE NOTE: 101P.

ABSTRACT: THIS REPORT DESCRIBES WATER RESOURCE PROJECTS THAT PROVIDE A SIGNIFICANT AMOUNT OF SPECIAL LOCALIZED BENEFITS AT THE FEDERAL TAXPAYERS' EXPENSE. THE U. S. ARMY CORPS OF ENGINEERS AND THE SOIL CONSERVATION SERVICE FINANCE, CONSTRUCT, AND SOMETIMES MAINTAIN WATER RESOURCE PROJECTS (SUCH AS DAMS, LEVEES, AND FLOODWALLS) TO SOLVE NATIONAL WATER RELATED PROBLEMS. SOME OF THESE PROJECTS BENEFIT PRIMARILY A FEW LANDOWNERS OR BUSINESSES AND THE FEDERAL GOVERNMENT PAYS MORE THAN ITS SHARE OF THE PROJECTS' COST. THIS REPORT INCLUDES CASE STUDIES OF A FEW OF THESE PRODUCTS WITH RECOMMENDATIONS THAT PROJECTS SUCH AS THESE SHOULD END.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW005902

PUBLICATION DATE: OCT 80

TITLE: EPA IS SLOW TO CARRY OUT ITS RESPONSIBILITY TO CONTROL HARMFUL CHEMICALS.

PERSONAL AUTHOR: COMPTROLLER GENERAL OF THE UNITED STATES

DESCRIPTOR: *CHEMICAL CONTROL; *CHEMICALS; *ENVIRONMENTAL PROTECTION AGENCY; *ENVIRONMENT; *PUBLIC HEALTH; *REGULATIONS; *TOXIC SUBSTANCES CONTROL ACT; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 53P. THE FIRST 5 COPIES ARE FREE

ABSTRACT: FOR ALMOST FOUR YEARS THE ENVIRONMENTAL PROTECTION AGENCY HAS HAD BROAD AUTHORITY TO PROTECT THE PUBLIC AND THE ENVIRONMENT FROM THE HARMFUL EFFECTS OF CHEMICALS. ALTHOUGH ACTIONS HAVE BEEN TAKEN TO CONTROL CHEMICALS, NO CHEMICALS HAVE BEEN TESTED AND BASIC DATA IS LACKING ON MOST OF THE 55,000 CHEMICALS NOW IN USE. NEW CHEMICALS ARE BEING SCREENED, BUT IMPLEMENTING REGULATIONS AND THE REVIEW PROCESS ITSELF HAVE NOT BEEN COMPLETED. SEVERAL FACTORS HAVE CONTRIBUTED TO THIS SLOW PROGRESS, INCLUDING NO CLEAR SENSE OF DIRECTION TO GUIDE THE PROGRAM, AND ORGANIZATIONAL AND STAFFING PROBLEMS. THE ENVIRONMENTAL PROTECTION AGENCY IS WORKING TO RESOLVE THESE PROBLEMS.

AVAILABILITY: U. S. GENERAL ACCOUNTING OFFICE, DOCUMENT HANDLING AND INFORMATION SERVICES FACILITY, P. O. BOX 6015, GAITHERSBURG, MD 20760

IRIS ACCESSION NUMBER: EW005903

PUBLICATION DATE: NOV 80

TITLE: ADDITIONAL FEDERAL AID FOR URBAN WATER DISTRIBUTION SYSTEMS SHOULD WAIT UNTIL NEEDS ARE CLEARLY ESTABLISHED.

PERSONAL AUTHOR: COMPTROLLER GENERAL OF THE UNITED STATES

DESCRIPTOR: *FEDERAL AID; *FEDERAL POLICY; FEDERAL BUDGET; *REPORTS; *URBAN AREAS; *WATER SUPPLY; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 66P.

ABSTRACT: A MOVE IS ON TO MODIFY FEDERAL POLICY TO PROVIDE MORE AID TO HELP LARGE CITIES REHABILITATE AND IMPROVE THEIR WATER SUPPLY AND DISTRIBUTION SYSTEMS. SUCH PROGRAMS, IF ENACTED, COULD ADD BILLIONS OF DOLLARS TO THE FEDERAL BUDGET. THE GENERAL ACCOUNTING OFFICE BELIEVES THAT THE CASE FOR MORE FEDERAL AID FOR URBAN WATER DISTRIBUTION SYSTEMS IS NOT CONVINCING, AND THAT LEGISLATION TO PROVIDE SUCH AID SHOULD NOT BE ENACTED UNTIL THE NEEDS ARE CLEARLY ESTABLISHED.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW005904

PUBLICATION DATE: OCT 80

TITLE: PROMISING CHANGES IMPROVE EPA'S EXTRAMURAL RESEARCH; MORE CHANGES NEEDED.

DESCRIPTOR: *CONTRACTS; *ENVIRONMENTAL PROTECTION AGENCY; *EVALUATION; *FEDERAL PROGRAMS; *MANAGEMENT; PLANNING; *PROGRAM EVALUATION; *RECOMMENDATIONS; *RESEARCH; *RESEARCH PROGRAMS

DESCRIPTIVE NOTE: 85P.

ABSTRACT: THIS REPORT BY THE GENERAL ACCOUNTING OFFICE EXAMINED THE US EPA'S EXTRAMURAL RESEARCH PROGRAM. THEIR FINDINGS INDICATED THAT EPA HAS MADE IMPROVEMENTS IN THE OVERALL PLANNING AND MANAGEMENT OF THE PROGRAM. HOWEVER, THERE ARE CERTAIN AREAS IN WHICH FURTHER IMPROVEMENT IS NEEDED. GAO RECOMMENDS, AMONG OTHER THINGS, THAT EPA: (1) OBTAIN PEER REVIEW OF RESEARCH STRATEGIES; (2) COMPLETE RESEARCH CONTRACT AWARDS QUICKER; (3) IMPROVE PROJECT OFFICERS' ABILITY TO MONITOR EXTRAMURAL RESEARCH; (4) EVALUATE CONTRACTORS AND GRANTEES TO MINIMIZE REPEAT AWARDS TO UNSATISFACTORY RESEARCHERS; AND (5) REQUIRE REGULATORY OFFICES AND LABORATORIES TO AGREE BEFORE PROJECTS ARE STARTED THAT THE APPROACH AND TIMING ARE REASONABLE TO MEET INTENDED NEEDS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

INSTITUTION NAME: COMPTROLLER GENERAL OF THE UNITED STATES.

IRIS ACCESSION NUMBER: EW005905

PUBLICATION DATE: AUG 80

TITLE: MAINTAINING THE COURSE FOR CLEAN WATER.

DESCRIPTOR: *CITIZEN PARTICIPATION; CITIZEN ROLE; CLEAN WATER ACT; GUIDELINES; *GUIDES; *MANAGEMENT; PLANNING; *POLLUTION CONTROL; PROGRAM PLANNING; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL ACT; *WATER QUALITY

DESCRIPTIVE NOTE: 51P. SINGLE COPIES ARE AVAILABLE FREE OF CHARGE

ABSTRACT: THE PURPOSE OF THIS HANDBOOK IS TO ASSIST AND GUIDE EFFECTIVE CITIZEN PARTICIPATION IN A UNIQUE PROGRAM FOR MANAGING THE QUALITY OF OUR NATION'S WATERS. THE PROGRAM, TITLED WATER QUALITY MANAGEMENT, GREW OUT OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972 AND THE CLEAN WATER ACT AMENDMENTS OF 1977. SECTIONS IN THIS HANDBOOK INCLUDE: CONTROLLING POLLUTION THROUGH THE CLEAN WATER ACT, IMPORTANT REQUIREMENTS OF WATER QUALITY MANAGEMENT PLANNING, CITIZEN ROLE IN WATER QUALITY MANAGEMENT, AND PROGRAMS TO PREVENT POLLUTION.

AVAILABILITY: U. S. ENVIRONMENTAL PROTECTION AGENCY, WATER PLANNING DIVISION, WASHINGTON, DC 20460

INSTITUTION NAME: NATIONAL WILDLIFE FEDERATION.

IRIS ACCESSION NUMBER: EW005906

PUBLICATION DATE: JAN 81

TITLE: ADD-ON TERMINAL CUTS COSTS, TURNAROUND AND DOUBLES CAPABILITY.

PERSONAL AUTHOR: YOUNG, RICHARD A.

DESCRIPTOR: *COMPUTERS; *DATA PROCESSING; *ENGINEERING; ECONOMICS; *INDUSTRY; *METALS; *PROCESS CONTROL; *TURNAROUND TIME; *TIMESHARE SYSTEMS; *WATER QUALITY

DESCRIPTIVE NOTE: 30-31P.

ABSTRACT: PROCESS CONTROL ENGINEERS AT BETHLEHEM STEEL'S JOHNSTOWN PLANT HAVE SIGNIFICANTLY REDUCED THE USE OF A REMOTE TIMESHARE COMPUTER. THEY HAVE REPLACED THE ENVIRONMENTAL AND FUEL DEPARTMENT'S INTERACTIVE TERMINAL WITH A LOCAL STAND-ALONE UNIT AND AN INTELLIGENT TERMINAL ATTACHMENT FOR ANALYZING AND REPORTING WATER QUALITY DATA RELATED TO STEEL PRODUCTION. THE CHANGE HAS NOT ONLY SAVED MONEY, IT HAS DECREASED THE TURNAROUND TIME REQUIRED FOR REPORTING PROCEDURES. IT HAS ALSO PERMITTED THE ADDITION OF SEVERAL EXTRA TASKS THAT WERE NOT JUSTIFIABLE PREVIOUSLY.

AVAILABILITY: POLLUTION ENGINEERING, V13 N1.

IRIS ACCESSION NUMBER: EW005907

PUBLICATION DATE: JAN 81

TITLE: A USABLE INPUT-OUTPUT FLOW CHART OF A MUNICIPAL WATER SYSTEM.

PERSONAL AUTHOR: BENGOECHEA, VENTURA; AND OTHERS

DESCRIPTOR: DECISION MAKING; INFORMATION SYSTEMS; MANAGEMENT; *MATHEMATICAL APPLICATIONS; *MUNICIPALITIES; *PLANNING; *SYSTEMS ANALYSIS; *WATER UTILITIES

DESCRIPTIVE NOTE: 3-8P.

ABSTRACT: AS A RULE, MUNICIPAL WATER SYSTEMS ARE COMPLEX. A NEW SYSTEMS ANALYSIS TOOL CALLED THE INPUT-OUTPUT WATER TRANSACTION TABLE, IS A SIMPLE MEANS TO UNDERSTAND BOTH THE DETAILS AND OVERALL STRUCTURE OF A COMPLEX SYSTEM AND TO FACILITATE TECHNICAL PLANNING AND INFORMED DECISION MAKING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005908

PUBLICATION DATE: JAN 81

TITLE: INDUSTRIAL WATER CONSERVATION WITHIN THE GREAT LAKES REGION: AN OVERVIEW.

PERSONAL AUTHOR: ANTOSIAK, LEONARD B.; JOB, CHARLES A.

DESCRIPTOR: CASE STUDIES; CLEAN WATER ACT; *CONSERVATION; ECONOMIC FACTORS; ENERGY; *GREAT LAKES; *INDUSTRY; *RECYCLING; *WATER RESOURCES; WATER REUSE; *WATER SUPPLY

DESCRIPTIVE NOTE: 9-12P.

ABSTRACT: BECAUSE INDUSTRY IS ALREADY THE SECOND LARGEST WATER USER GROUP IN THE GREAT LAKES REGION, INDUSTRIAL EXPANSION IS OF SOME CONCERN. THE ISSUE DOES NOT REVOLVE AROUND THE QUANTITY OF WATER SUPPLY, WHICH IS PLENTIFUL AND INEXPENSIVE, BUT RATHER AROUND THE QUALITY OF THE SUPPLY. BOTH THE CLEAN WATER ACT AND THE MONETARY, ENERGY, AND WATER SAVINGS GENERATED BY REUSE AND RECYCLING EFFORTS HAVE ENCOURAGED INDUSTRY TO TAKE IMPORTANT STEPS TOWARD CONSERVING THE AMOUNT AND QUALITY OF ITS WATER SUPPLY. CASE STUDIES OF GREAT LAKES INDUSTRIES ARE PRESENTED IN THIS ARTICLE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005909

PUBLICATION DATE: JAN 81

TITLE: DECLINING BLOCK RATES CAN ENCOURAGE WATER CONSERVATION.

PERSONAL AUTHOR: SAWCHUK, LLOYD

DESCRIPTOR: BLOCK RATES; *CONSERVATION; *COSTS; DEMAND; *ECONOMIC FACTORS; MATHEMATICAL MODELS; POLICY; *RATES; *WATER SUPPLY; *WATER RATES; *WATER USE

DESCRIPTIVE NOTE: 13-15P.

ABSTRACT: DECLINING BLOCK RATE PRICING POLICIES HAVE COME UNDER FIRE FOR THEIR SUPPOSED PROPENSITY FOR ENCOURAGING WATER CONSUMPTION. RECENT STUDIES SHOW, HOWEVER, THAT INCREASING THE RATES CHARGED TO INDUSTRIAL CONSUMERS DOES NOT NECESSARILY RESULT IN DECREASED USAGE. PRESENT ECONOMIC CONDITIONS UNDERSCORE THE IMPORTANCE OF RETHINKING PRICING POLICIES. THIS ARTICLE SUGGESTS THAT, GIVEN MEASURED TENDENCIES OF RESIDENTIAL AND COMMERCIAL AND INDUSTRIAL CONSUMERS, DECLINING RATE STRUCTURES CAN ENCOURAGE WATER CONSERVATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005910

PUBLICATION DATE: JAN 81

TITLE: PACKAGE PLANTS: A COST-EFFECTIVE SOLUTION TO SMALL WATER SYSTEM TREATMENT NEEDS.

PERSONAL AUTHOR: CLARK, ROBERT M.; MORAND, JAMES M.

DESCRIPTOR: CONSTRUCTION; *COST EFFECTIVENESS; DESIGN; *DRINKING WATER; ECONOMIC FACTORS; *OPERATIONS (WATER); *PACKAGE PLANTS; *RURAL AREAS; STANDARDS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 24-30P.

ABSTRACT: MANY SMALL AND RURAL WATER SYSTEMS HAVE BOTH COST AND QUALITY PROBLEMS. AS DRINKING WATER QUALITY STANDARDS BECOME MORE STRINGENT, COSTS WILL INCREASE AND BOTH PROBLEMS WILL BE COMPOUNDED. THIS ARTICLE PRESENTS ONE ECONOMICAL ALTERNATIVE TO CONVENTIONAL TREATMENT, THE PACKAGE PLANT, A SELF-CONTAINED UNIT THAT CAN BE INSTALLED AT MINIMUM COST.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005911

PUBLICATION DATE: JAN 81

TITLE: PUBLIC HEALTH ASPECTS OF ALTERNATIVE WATER DISINFECTANTS.

PERSONAL AUTHOR: GREENBERG, ARNOLD E.

DESCRIPTOR: CARCINOGENS; *CHLORINATION; *CHLORINE DIOXIDE; *DISINFECTION; *DRINKING WATER; *OZONE; *PUBLIC HEALTH; RESEARCH REPORTS; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 31-33P.

ABSTRACT: THIS ARTICLE SUGGESTS THAT ALTHOUGH CHLORINE DIOXIDE AND OZONE ARE GOOD DISINFECTING AGENTS, THE HEALTH EFFECTS OF THEIR REACTION PRODUCTS ARE INCOMPLETELY UNDERSTOOD. THE CHLORITE ION PRODUCED BY CHLORINE DIOXIDE

AND OXIDIZED ORGANIC COMPOUNDS RESULTING FROM OZONATION MAY BE TOXIC. UNTIL OR UNLESS THESE SUBSTANCES ARE IDENTIFIED AND THEIR SAFETY DEMONSTRATED, NEITHER CHLORINE DIOXIDE NOR OZONE SHOULD BE SUBSTITUTED FOR CHLORINE IN WATER DISINFECTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005912

PUBLICATION DATE: JAN 81

TITLE: CONTROLLING TRIHALOMETHANES WHILE ATTAINING DISINFECTION.

PERSONAL AUTHOR: VOGT, CRAIG; REGLI, STIG

DESCRIPTOR: *CARCINOGENS; CHLORINATION; CHLOROFORM; *DISINFECTION; *DRINKING WATER; *PUBLIC HEALTH; RESEARCH REPORTS; *TRIHALOMETHANES; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 33-40P.

ABSTRACT: CHLOROFORM, THE MOST COMMON TRIHALOMETHANE (THM) IN DRINKING WATER, HAS BEEN SHOWN TO BE A CARCINOGEN IN RODENTS AND THUS POSES A RISK TO CONSUMERS OF DRINKING WATER. THIS ARTICLE REPORTS THAT REDUCTION OF THMS CAN BE ACCOMPLISHED BY USING A DISINFECTANT THAT DOES NOT GENERATE THMS, BY REDUCING PRECURSOR CONCENTRATIONS PRIOR TO CHLORINATION, OR BY REDUCING THMS AFTER FORMATION. MODIFICATION OF EXISTING TREATMENT FACILITIES FOR THM REDUCTION MUST BE CAREFULLY CONTROLLED SO THAT THE MICROBIOLOGICAL QUALITY OF THE DRINKING WATER IS NOT COMPROMISED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, V73 N1

IRIS ACCESSION NUMBER: EW005913

PUBLICATION DATE: JAN 81

TITLE: COMPARISON OF THE BIOCIDAL EFFICIENCY OF ALTERNATIVE DISINFECTANTS.

PERSONAL AUTHOR: HOFF, JOHN C.; GELDREICH, EDWIN E.

DESCRIPTOR: BIOCIDES; *CHLORINE DIOXIDE; *CHLORAMINES; *DISINFECTION; *DRINKING WATER; LABORATORY TESTS; *OZONE; RESEARCH REPORTS; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 40-44P.

ABSTRACT: OZONE, CHLORINE DIOXIDE, AND CHLORAMINES ARE CURRENTLY THE THREE POSSIBLE ALTERNATIVES TO CHLORINE DISINFECTION. THIS ARTICLE SUGGESTS THAT WHILE OZONE IS BELIEVED TO BE THE MOST POTENT BIOCIDE, IT IS IMPOSSIBLE TO RANK DISINFECTANTS IN ORDER OF THEIR RESPECTIVE BIOCIDAL EFFICIENCIES. DIFFERENT TYPES OF MICROORGANISMS AND DYNAMIC EXPERIMENTAL CONDITIONS CAUSE DISCREPANCIES IN THE PERFORMANCE LEVELS OF EACH BIOCIDE. ANOTHER PROBLEM IS THAT LABORATORY STUDIES OFTEN CANNOT BE DIRECTLY EXTRAPOLATED TO DETERMINE PERFORMANCE EFFICIENCY IN ACTUAL FIELD CONDITIONS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005914

PUBLICATION DATE: JAN 81

TITLE: USES OF OZONE IN DRINKING WATER TREATMENT.

PERSONAL AUTHOR: RICE, RIP G.; AND OTHERS

DESCRIPTOR: *CHEMICAL ANALYSIS; COSTS; *DISINFECTION; *DRINKING WATER; *OZONE; POTABLE WATER; *PUBLIC HEALTH; RESEARCH REPORTS; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 44-57P.

ABSTRACT: BECAUSE OZONE IS A POWERFUL OXIDANT, AND BECAUSE MANY WATER SUPPLIES AND INDUSTRIAL WASTEWATERS HAVE OXIDIZABLE CONTAMINANTS, OZONE HAS TREMENDOUS OXIDATIVE VERSATILITY IN ADDITION TO ITS BIOCIDAL POTENTIAL. THIS ARTICLE REPORTS THAT DUE TO THE SHORT HALF-LIFE OF OZONE, ANY RESIDUAL OZONE PRESENT IN WATER LEAVING THE TREATMENT PLANT WILL PROBABLY HAVE DISSIPATED BY THE TIME THE WATER REACHES THE CONSUMER'S TAP, POSING LITTLE DANGER TO HUMANS FROM INGESTION OF OZONIZED DRINKING WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005915

PUBLICATION DATE: JAN 81

TITLE: WATERBORNE DISEASE: OCCURRENCE IS ON THE UPSWING.

PERSONAL AUTHOR: LIPPY, EDWIN C.

DESCRIPTOR: *CASE STUDIES; *CONTAMINATION; DISEASES; *DRINKING WATER; *GROUNDWATER; OPERATIONS; *PUBLIC HEALTH; *WATER QUALITY; WATER TREATMENT

DESCRIPTIVE NOTE: 57-62P.

ABSTRACT: THIS ARTICLE REPORTS THAT A SIZABLE PORTION OF THE WATERBORNE DISEASE OUTBREAKS IN THE U.S. ARE TRACEABLE TO SYSTEMS WITH GROUNDWATER SUPPLIES. INVESTIGATION OF SEVERAL OUTBREAKS UNCOVERED EVIDENCE OF INADEQUATE WATER TREATMENT PRACTICES AND PLANT OPERATION AS WELL AS THE LACK OF PROPER UTILIZATION OF HEALTH SURVEILLANCE TECHNIQUES AS BEING MAJOR CAUSES OF THE FAILURE TO PROTECT PUBLIC HEALTH. WATER QUALITY PROBLEMS MAY NOT BE ALL BAD, THOUGH -- THEY MAY PROVIDE A WAY TO GAIN PUBLIC AWARENESS OF THE PROBLEM OF GROUNDWATER CONTAMINATION AND, IN TURN, OBTAIN FUNDING FOR GROUNDWATER PROTECTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005916

PUBLICATION DATE: JAN 81

TITLE: DISCUSSION: THE USE OF CHLORAMINES TO PREVENT TRIHALOMETHANE FORMATION IN HURON, SD, DRINKING WATER.

DESCRIPTOR: CHEMICAL ANALYSIS; *CHLORAMINES; CHLORINATION; *DRINKING WATER; *PUBLIC HEALTH; *TRIHALOMETHANE; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 63-64P.

ABSTRACT: A RECENT ARTICLE IN THE JOURNAL OF THE AMERICAN WATER WORKS ASSOCIATION (72:3:176, MARCH, 1980) PROMPTED CORRESPONDENCE BETWEEN THE AUTHOR AND GEORGE CLIFFORD WHITE ON THE EFFECTIVENESS OF USING CHLORAMINES AS A PRIMARY DISINFECTANT. THE COMMENTS HAVE BEEN ABSTRACTED FOR PRESENTATION IN THIS ARTICLE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N1

IRIS ACCESSION NUMBER: EW005917

PUBLICATION DATE: OCT 80
TITLE: HOW TO CHECK, CLEAN AND REPAIR THE V-NOTCH PLUG OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 CHLORINATOR.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHLORINATORS; *CHLORINATION; *DISINFECTION; *EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 41 SLIDES, CASSETTE TAPE AND BOOKLET

ABSTRACT: THIS INSTRUCTIONAL PACKAGE CONTAINS SLIDES, A TAPE AND A WRITTEN NARRATIVE DEALING WITH THE MAINTENANCE AND REPAIR OF A V-NOTCH PLUG OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 CHLONNATOR.

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005918

PUBLICATION DATE: OCT 80

TITLE: HOW TO CHECK, CLEAN AND REPAIR THE INLET CARTRIDGE OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 V-NOTCH CHLORINATOR.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHLORINATION; *CHLORINATORS; *DISINFECTION; *EQUIPMENT; *INLET CARTRIDGES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; OPERATIONS(WATER); OPERATIONS(WASTEWATER); *POST SECONDARY EDUCATION; *REPAIR; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 68 SLIDES, CASSETTE & BOOKLET

ABSTRACT: THIS PACKAGE CONTAINS SLIDES, A TAPE AND A WRITTEN NARRATIVE DEALING WITH THE MAINTENANCE AND REPAIR OF THE INLET CARTRIDGE OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 V-NOTCH CHLORINATOR.

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005919

PUBLICATION DATE: OCT 80

TITLE: HOW TO CHECK AND CLEAN THE INLET STRAINER OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 CHLORINATOR.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHLORINATION; *CHLORINATORS; *DISINFECTION; *EQUIPMENT; *INLET STRAINERS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *REPAIR; *WASTEWATER TREATMENT; WATER TREATMENT

DESCRIPTIVE NOTE: 33 SLIDES, CASSETTE TAPE AND BOOKLET.
ABSTRACT: THIS PACKAGE CONTAINS SLIDES, A TAPE AND A WRITTEN NARRATIVE DEALING WITH THE MAINTENANCE AND REPAIR OF THE INLET STRAINER OF A WALLACE AND TIERNAN SERIES 25-060 OR SERIES V-800 CHLORINATOR.

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005921

PUBLICATION DATE: OCT 80

TITLE: HOW TO CHECK, CLEAN AND REPAIR A WALLACE AND TIERNAN V-23111 INJECTOR.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHLORINATORS; *CHLORINATION; *DISINFECTION; *INJECTORS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *REPAIR; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 82 SLIDES, CASSETTE TAPE AND BOOKLET

ABSTRACT: THIS PACKAGE CONTAINS SLIDES, A TAPE, AND A WRITTEN NARRATIVE, DEALING WITH THE MAINTENANCE AND REPAIR OF A WALLACE AND TIERNAN V-2311 INJECTOR.

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005922

PUBLICATION DATE: OCT 80

TITLE: HOW TO CHANGE A ONE-TON CHLORINE SUPPLY.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHLORINATION; *CHLORINE SUPPLY; *DISINFECTION;GAS CHLORINATION; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER QUALTIY

DESCRIPTIVE NOTE: 118 SLIDES, CASSETTE TAPE, STUDENT WORKBOOK AND BOOKLET

ABSTRACT: THIS PACKAGE CONTAINS 118 SLIDES, A CASSETTE TAPE, A STUDENT WORKBOOK AND AN INSTRUCTORS GUIDE. THE INSTRUCTIONAL PACKAGE IS PART OF A COURSE ON PROCESS CONTROL IN WATER QUALITY CONTROL PROGRAMS. THE SUBJECT OF THIS LESSON IS HOW TO CHANGE A ONE-TON CHLORINE SUPPLY, AND IT IS PART OF THE UNIT ON GAS CHLORINATION (TON CONTAINERS).

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005924

PUBLICATION DATE: 80

TITLE: WATER CHEMISTRY

PERSONAL AUTHOR: SNOEYINK, VERNON L.; JENKINS, DAVID

DESCRIPTOR: *ACIDS; *BASES; *CHEMISTRY; CHEMICAL EQUILIBRIUM; *COLLEGE SCIENCE; *INSTRUCTIONAL MATERIALS; *OXIDATION; PRECIPITATION; *WATER; *WATER RESOURCES; WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 463P. PRICE: $26.95

ABSTRACT: THIS BOOK IS A FIRST-LEVEL TEXT ON WATER CHEMISTRY THAT PLACES SPECIAL EMPHASIS ON THE CHEMISTRY OF NATURAL AND POLLUTED WATERS AND ON THE APPLIED CHEMISTRY OF WATER AND WASTEWATER TREATMENT. IT PROVIDES A COMPREHENSIVE COVERAGE OF THE DILUTE AQUEOUS SOLUTION CHEMISTRY OF ACID-BASE REACTIONS, COMPLEX FORMATION, PRECIPITATION AND DISSOLUTION REACTIONS, AND OXIDATION-REDUCTION REACTIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW005925

PUBLICATION DATE: 80

TITLE: DESIGN & MANAGEMENT FOR RESOURCE RECOVERY, VOLUME I - ENERGY FROM WASTE.

PERSONAL AUTHOR: FRANKIEWICZ, T. C.; VESILIND, P. AARNE

DESCRIPTOR: *DESIGN; *ENERGY; ENGINEERING; *FACILITIES; METHANE; *MANAGEMENT; POLLUTION; *RESOURCE RECOVERY; RECYCLING; *SOLID WASTES; *WASTE DISPOSAL; *WASTE TREATMENT; WASTES

DESCRIPTIVE NOTE: 209P. PRICE: $29.95, ISBN-0-250-40312-9

ABSTRACT: THE CHAPTERS IN THIS VOLUME REPRESENT A LARGE FRACTION OF THE TECHNICAL PRESENTATIONS MADE AT THE JULY 1979 ENGINEERING FOUNDATION CONFERENCE, "MUNICIPAL SOLID WASTE AS A RESOURCE: THE PROBLEM AND THE PROMISE". THE PAPERS PRESENTED DEAL WITH THE TOPICS OF EXISTING PLANTS AND THEIR PROBLEMS, DATA ON EXISTING RESOURCE RECOVERY CONCEPTS, ECONOMICS, NEW TECHNOLOGICAL CONCEPTS AND NEW RESEARCH AND RECOMMENDATIONS FOR ADVANCED WORK.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, IN., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005926

PUBLICATION DATE: 80

TITLE: SAFE HANDLING OF CHEMICAL CARCINOGEN, MUTAGENS, TERATOGENS AND HIGHLY TOXIC SUBSTANCES, VOLUME I.

PERSONAL AUTHOR: WALTERS, DOUGLAS B.

DESCRIPTOR: *CARCINOGENS; *CHEMICALS; *INSTRUCTIONAL MATERIALS; *LABORATORY DESIGN; *MUTAGENS; *MATERIALS HANDLING; *MONITORING; PUBLIC HEALTH; *SAFETY; *TOXICITY; *TERATOGENS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 381P. PRICE: $33.95, ISBN 0-250-40303-X

ABSTRACT: THE EMPHASIS OF THIS BOOK IS ON THE CONTROL AND USE OF HAZARDOUS AGENTS IN A RESEARCH ORGANIZATION. THE SUBJECTS COVERED INCLUDE: LABORATORY DESIGN, HANDLING AND MANAGEMENT; CHEMICAL MONITORING AND MEDICAL SURVEILLANCE; INFORMATION NEEDS AND CHEMICAL CLASSIFICATION; STRUCTURE-ACTIVITY AND TOXICITY PREDICTION; SPILL CONTROL, DEGRADATION AND DEACTIVATION; AND DISPOSAL.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005927

PUBLICATION DATE: 80

TITLE: SAFE HANDLING OF CHEMICAL CARCINOGENS, MUTAGENS, TERATOGENS AND HIGHLY TOXIC SUBSTANCES, VOLUME 2.

PERSONAL AUTHOR: WALTERS, DOUGLAS B.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *CHEMICAL CARCINOGENS; DISPOSAL; *INSTRUCTIONAL MATERIALS; *MUTAGENS; PUBLIC HEALTH; *SAFETY; SPILL CONTROL; *TERATOGENS; *TOXIC

SUBSTANCES

DESCRIPTIVE NOTE: 294P. PRICE: $33.95; ISBN 0-250-40354-4

ABSTRACT: THE PAPERS IN THIS BOOK DEAL WITH THE PROBLEMS OF THE CONTROL AND USE OF HAZARDOUS AGENTS IN A RESEARCH ORGANIZATION. THIS VOLUME CONTAINS DISCUSSIONS OF STRUCTURE-ACTIVITY AND TOXICITY PREDICTION, SPILL CONTROL, DEGRADATION AND DEACTIVATION, AND DISPOSAL OF TOXIC SUBSTANCES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005928

PUBLICATION DATE: 80

TITLE: COMPOST ENGINEERING, PRINCIPLES AND PRACTICE.

PERSONAL AUTHOR: HAUG, ROGER TIM

DESCRIPTOR: *COMPOSTING; *COMPOST ENGINEERING; *ENGINEERING; ODOR; SIMULATION MODELS; *SLUDGE MANAGEMENT; SEWAGE SLUDGE; SLUDGE; *THEOMODYNAMICS; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 655P. PRICE: $39.95

ABSTRACT: THIS BOOK AIMS TO PRESENT A MORE FUNDAMENTAL ENGINEERING APPROACH TO THE ANALYSIS OF COMPOSTING BY INTEGRATING THERMODYNAMICS AND PROCESS KINETICS INTO A UNIFIED MODEL. THE MODEL IS PRESENTED TO GUIDE THE ANALYSIS AND DESIGN OF FUTURE SLUDGE TREATMENT SYSTEMS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC,. 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005929

PUBLICATION DATE: 79

TITLE: ORGANICS ANALYSIS USING GAS CHROMATOGRAPHY/MASS SPECTROMETRY - A TECHNIQUES AND PROCEDURES MANUAL.

PERSONAL AUTHOR: BUDDE, WILLIAM L.; EICHELBERGER, JAMES W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHEMICALS; ENVIRONMENT; *GAS CHROMATOGRAPHY; *LABORATORY MANUALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *MASS SPECTROMETRY; *ORGANIC ANALYSIS; *ORGANIC CHEMICALS; SAMPLING; *WATER POLLUTION

DESCRIPTIVE NOTE: 241P. PRICE: $20.00, ISBN 0-250-40318-8

ABSTRACT: THIS PUBLICATION BY THE ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY AT CINCINNATI CONTAINS INFORMATION ON A BROAD SPECTRUM OF TECHNIQUES WHICH ARE NEEDED FOR THE ANALYSIS OF ORGANIC COMPOUNDS IN ENVIRONMENTAL SAMPLES. BROAD SPECTRUM METHODS ARE REQUIRED FOR SITUATIONS WHERE THE NATURE OF THE ORGANIC COMPOUNDS THAT MAY BE PRESENT IS UNKNOWN. FEDERAL AGENCIES, STATES, MUNICIPALITIES, UNIVERSITIES, PRIVATE LABORATORIES, AND INDUSTRY SHOULD FIND THIS MANUAL OF ASSISTANCE IN MONITORING AND CONTROLLING ORGANIC POLLUTION IN THE ENVIRONMENT.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005930

PUBLICATION DATE: AUG 80

TITLE: TROUBLESHOOTING GUIDE.

DESCRIPTOR: *CHLORINATION; *DISINFECTION; EQUIPMENT; *GUIDES; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *TRAINING MANUALS; *TROUBLESHOOTING; WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 101P.

ABSTRACT: THIS PUBLICATION CONTAINS EIGHT TROUBLESHOOTING GUIDES FOR COMMON PROBLEMS ENCOUNTERED IN THE OPERATION OF CHLORINATION SYSTEMS. THE EIGHT GUIDES ADDRESS PROBLEMS ASSOCIATED WITH EFFLUENT RESIDUALS, FEED RATES, WATER/GAS PRESSURE AT CHLORINATOR, SCALE AND ROTAMETER READINGS, AND COOLING/ICING WITHIN THE SYSTEM. THE GUIDES CAN BE USED IN A CLASSROOM SITUATION OR FOR ACTUAL TROUBLESHOOTING. A DIAGNOSTIC INDEX PROVIDES EASY ACCESS TO THE DETAILED AND HIGHLY ILLUSTRATED GUIDES.

AVAILABILITY: WASHINGTON ENVIRONMENTAL TRAINING RESOURCE CENTER, GREEN RIVER COMMUNITY COLLEGE, AUBURN, WA 98002

IRIS ACCESSION NUMBER: EW005931

PUBLICATION DATE: 80

TITLE: PHOSPHORUS MANAGEMENT STRATEGIES FOR LAKES.

PERSONAL AUTHOR: LOEHR, RAYMOND C.; AND OTHERS

DESCRIPTOR: *CONFERENCE PROCEEDINGS; EUTROPHICATION; LIMNOLOGY; *LAKES; *MANAGEMENT; MATHEMATICAL MODELS; NUTRIENTS; *PHOSPHORUS; RESEARCH; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 300P. PRICE: $39.95

ABSTRACT: THE PURPOSE OF THESE PROCEEDINGS IS TO SUMMARIZE AVAILABLE INFORMATION DEALING WITH THE TECHNICAL, ECONOMIC AND INSTITUTIONAL ASPECTS OF PHOSPHORUS MANAGEMENT STRATEGIES IN LAKES. THE PAPERS INDICATE: (1) THE RELATIVE MAGNITUDE OF POINT AND NONPOINT PHOSPHORUS INPUTS TO LAKES, (2) MATHEMATICAL MODELS OF PHOSPHORUS DYNAMICS AND INTERACTIONS IN LAKES, (3) AVAILABILITY OF VARIOUS FORMS OF

PHOSPHORUS TO AQUATIC LIFE, (4) EFFECTIVENESS OF PHOSPHORUS MANAGEMENT STRATEGIES THAT HAVE BEEN AND SHOULD BE TRIED, AND (5) CONSIDERATIONS CONCERNING THE IMPLEMENTATION OF POSSIBLE STRATEGIES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005932

PUBLICATION DATE: 79

TITLE: URBAN HYDROLOGY - A MULTIDISCIPLINARY PERSPECTIVE.

PERSONAL AUTHOR: LAZARO, TIMOTHY R.

DESCRIPTOR: *HYDROLOGY; *INSTRUCTIONAL MATERIALS; MATHEMATICAL MODELS; *MODELS; MUNICIPALITIES; *PLANNING; PROBLEM SOLVING; RUNOFF WATERS; *URBAN AREAS; *URBAN ENVIRONMENT; *URBANIZATION; WATER QUALITY; *WATER RESOURCES; WATERSHEDS

DESCRIPTIVE NOTE: 249P. PRICE: $24.00, ISBN 0-250-40330-7

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO OUTLINE AND DISCUSS THE FACETS OF URBAN HYDROLOGY IN LANGUAGE WHICH CAN BE EASILY UNDERSTOOD BY SCHOLARS OF DIFFERENT DISCIPLINES. THE BOOK SUPPORTS THE VIEW THAT PROBLEMS IN URBAN HYDROLOGY CAN ONLY BE ADEQUATELY SOLVED BY USING A MULTIDISCIPLINARY APPROACH. CHAPTERS INCLUDE: CITY PHYSIOLOGY AND ANATOMY, IMPACT OF URBANIZATION ON STREAMFLOW, URBANIZATION AND STREAM WATER QUALITY, ANALYSIS OF HYDROLOGIC CHANGE DUE TO URBANIZATION, MODELING URBAN WATER QUANTITY AND QUALITY, NONSTRUCTURAL CONTROL MEASURES, AND STRUCTURAL CONTROL MEASURES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005933

PUBLICATION DATE: 79

TITLE: WATER RESOURCES ASSESSMENT - METHODOLOGY 8 TECHNOLOGY SOURCES BOOK.

PERSONAL AUTHOR: CANTER, LARRY W.

DESCRIPTOR: *ENVIRONMENTAL IMPACT STATEMENTS; *IMPACT ASSESSMENT; INDEXES; *INSTRUCTIONAL MATERIALS; *LITERATURE REVIEWS; *REFERENCE MATERIALS; TECHNOLOGY; *WATER RESOURCES

DESCRIPTIVE NOTE: 529P. PRICE: $29.50, ISBN-0-250-40320-X

ABSTRACT: THE OBJECTIVE OF THIS STUDY WAS TO PREPARE A COMPREHENSIVE REVIEW AND EVALUATION OF METHODOLOGIES AND TECHNOLOGIES THAT ARE USED DIRECTLY OR THAT HAVE POTENTIAL APPLICATION TO ENVIRONMENTAL IMPACT ASSESSMENT AND/OR IMPACT ASSESSMENT AND ALTERNATIVE EVALUATION STUDIES FOR WATER RESOURCES PROGRAMS AND PROJECTS. THE LITERATURE REVIEW WAS CONDUCTED FOR SIX TIME PERIODS FROM 1960 TO 1978, REPRESENTING PRE-AND POST-N. E. P. A. LITERATURE. 254 REFERENCES WERE REVIEWED, OF WHICH 176 MET CRITERIA FOR USE WITH WATER RESOURCES PROJECTS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005934

PUBLICATION DATE: 80

TITLE: ENVIRONMENTAL IMPACT OF NONPOINT SOURCE POLLUTION

PERSONAL AUTHOR: OVERCASH, MICHAEL R.; DAVIDSON, JAMES M.

DESCRIPTOR: AGRICULTURE; *ENVIRONMENTAL IMPACT; ENVIRONMENT; LAND TREATMENT; LAND USE; *MODELING; NEEDS ASSESSMENT; NITROGEN; *NONPOINT POLLUTION; *NONPOINT SOURCE POLLUTION; PESTICIDES; PHOSPHORUS; RESEARCH REVIEWS; SILVICULTURE; *STATE OF THE ART REVIEWS; *WATER POLLUTION

DESCRIPTIVE NOTE: 449P. PRICE: 29.95, ISBN-0250-403390

ABSTRACT: THIS BOOK IS THE COMPILATION OF AN IN-DEPTH, THREE-DAY WORKSHOP ON THE SUBJECT OF NON-POINT SOURCE POLLUTION. THE ISSUES ADDRESSED WERE IDENTIFIED BY THE EDITORS PRIOR TO CHAPTER PREPARATION AND A NUMBER OF SIMILAR PROBLEMS OR APPROACHES WERE DEFINED SO THAT THE BOOK PROVIDES A MORE UNIFORM APPROACH. CHAPTERS HAVE BEEN ORGANIZED TO FIRST ADDRESS SPECIFIC POLLUTANT CONSTITUENTS AND THE PRESENT THRUST OF RESEARCH IN THE NON-POINT SOURCE AREA. THIS IS FOLLOWED BY A SERIES OF CHAPTERS DESCRIBING SPECIFIC PHENOMENA ASSOCIATED WITH LAND USES: AGRICULTURE, SILVICULTURE, AND APPLICATION OF ORGANIC WASTES (LAND TREATMENT SITES). FINALLY, CHAPTERS ON COMPLETE MODELING OF WATER AND POLLUTANTS FROM LAND TO RECEIVING WATERS ARE PRESENTED. EACH CHAPTER IS INTENDED TO DESCRIBE THE PRESENT STATE-OF-THE-ART AND FUTURE RESEARCH NEEDS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC. C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005935

PUBLICATION DATE: JAN 81

TITLE: INDUSTRIAL WASTEWATER VS. THE POTW.

PERSONAL AUTHOR: STUKENBERG, JOHN; COPELAND, JERRY D.

DESCRIPTOR: *DESIGN; ENVIRONMENTAL PROTECTION AGENCY; *FACILITIES; *INDUSTRIAL WASTES; *MUNICIPALITIES; PRETREATMENT STANDARDS; *SEWAGE; UTILITIES; *WATER TREATMENT; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 41-43P.

ABSTRACT: THE ENVIRONMENTAL PROTECTION AGENCY HAS PROMULGATED GENERAL PRETREATMENT STANDARDS CONTROLLING THE INTRODUCTION OF INCOMPATIBLE NON-DOMESTIC WASTES INTO PUBLICLY OWNED TREATMENT WORKS. HOWEVER, MUNICIPALITIES MUST AS A POLITICAL NECESSITY RECEIVE AND TREAT COMPATIBLE INDUSTRIAL WASTES THAT ARE DISCHARGED TO THE TREATMENT PLANT PARTICULARLY WHERE INDUSTRY PROVIDES SUBSTANTIAL EMPLOYMENT. THIS ARTICLE DESCRIBES HOW A PRIMARY TREATMENT PLANT WITH A SECONDARY TREATMENT ADDITION WAS DESIGNED TO COMPLY WITH THE NEW REGULATIONS.

AVAILABILITY: AMERICAN CITY & COUNTY, V96 N1,

IRIS ACCESSION NUMBER: EW005936

PUBLICATION DATE: MAR 80

TITLE: OIL SPILLS, A PUBLIC OFFICIAL'S HANDBOOK.

PERSONAL AUTHOR: OMOHUNDRO, JOHN T.

DESCRIPTOR: *COMMUNITY RESPONSE; *EMERGENCIES; *HAZARDOUS SUBSTANCES; *OIL SPILLS; PLANNING; PUBLIC INFORMATION; *WATER POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 20P. PRICE: $1.00 PLUS 15^ POSTAGE AND HANDLING

ABSTRACT: THIS HANDBOOK EXPLAINS THE SOCIAL RESPONSE TO AN OIL OR HAZARDOUS SUBSTANCE SPILL, PARTICULARLY IN WATER. THE REACTIONS OF THE VICTIMS AND COASTAL RESIDENTS OF THE IMPACTED AREA ARE IDENTIFIED, AND ACTIONS THAT MAY REDUCE SOCIAL PROBLEMS ARE SUGGESTED. THE LAST SECTION, "SUGGESTIONS FOR PLANNING AND RESPONSE," MAY BE CONSULTED IMMEDIATELY IN THE EVENT OF A SPILL. AN EMERGENCY CHECKLIST ON THE BACK COVER ADDRESSES SPECIFIC ACTIONS AND GUIDES THE READER TO APPROPRIATE SECTIONS OF THIS HANDBOOK. THE QUICK REFERENCE CHARTS 1, 2, AND 3 MAY SERVE AS MEMORY AIDS TO THE SOCIAL CONTEXT OF PARTICULAR PROBLEMS.

AVAILABILITY: CORNELL UNIVERSITY, DISTRIBUTION CENTER, 7 RESEARCH PARK, ITHACA, NY 14850

IRIS ACCESSION NUMBER: EW005937

PUBLICATION DATE: 80

TITLE: SCIENCE AND CONSCIENCE.

PERSONAL AUTHOR: WESSEL, MILTON R.

DESCRIPTOR: BUSINESS; *DECISION MAKING; *ENVIRONMENTAL QUALITY; INDUSTRY; *INSTRUCTIONAL MATERIALS; LAWYERS; *LEGISLATION; *POLICY FORMATION; POLITICS; PUBLIC POLICY; *SCIENCES; *SOCIAL FACTORS

DESCRIPTIVE NOTE: 293P. PRICE: $15.95

ABSTRACT: THIS BOOK IS ABOUT THE MODERN SOCIOSCIENTIFIC DISPUTE -THE COMPLEX, PUBLIC INTEREST CONTROVERSY WHICH DEALS WITH THE HUMAN QUALITY OF LIFE PROBLEMS. CHAPTER I ANALYZES THE DIFFERENCES BETWEEN THE MODERN SOCIOSCIENTIFIC AND THE TRADITIONAL DISPUTE. CHAPTER II TREATS THE EXTREMES OF "ADVERSARIALISM" WHICH PERMEATE OUR SOCIETY. CHAPTER III DEALS WITH THE CHANGES WHICH HAVE TAKEN PLACE IN THE LEGAL PROFESSION AND THE PRACTICE OF LAW SINCE WWII. CHAPTER IV TREATS THE CHANGES IN CORPORATE SOCIETY SINCE WWII. THE LAWYER-CORPORATION RELATIONSHIP IS EXPLORED IN CHAPTER V. CHAPTER VI SUGGESTS A NUMBER OF WAYS BY WHICH SCIENCE CAN COMMUNICATE BETTER WITH THE LAY PUBLIC. CHAPTER VII PROPOSES THE SCIENTIFIC "CONSENSUS-FINDING CONFERENCE" AS A NEW MECHANISM TO DEAL WITH SOCIOSCIENTIFIC PROBLEMS. THE ACRIMONY WHICH HAS COME TO CHARACTERIZE MANY SOCIOSCIENTIFIC DISPUTES IS EXAMINED IN CHAPTER 8.

AVAILABILITY: COLUMBIA UNIVERSITY PRESS, 136 SOUTH BROADWAY, IRVINGTON, NY 10533

IRIS ACCESSION NUMBER: EW005938

PUBLICATION DATE: 80

TITLE: WATER QUALITY ADMINISTRATION, A FOCUS ON SECTION 208.

PERSONAL AUTHOR: LAMB, BERTON L.

DESCRIPTOR: *ADMINISTRATION; ADMINISTRATIVE PLANNING; *CLEAN WATER ACT; LAWS; *MANAGEMENT; NATURAL RESOURCES; *NONPOINT POLLUTION; PLANNING; *POINT POLLUTION; *POLLUTION CONTROL; REGULATIONS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 280P. PRICE: $20.00; ISBN 0-250-40292-0

ABSTRACT: THE FOCUS OF THIS BOOK IS ON SECTION 208 OF THE CLEAN WATER ACT OF 1977. ESTABLISHING A CONTEXT FOR CONSIDERING SECTION 208, THE BOOKPROVIDES A REVIEW OF SEVERAL IMPORTANT SUBJECT AREAS. FIRST, IN THE INTRODUCTION AN ATTEMPT IS MADE TO REVIEW THE MAJOR POLICY CONCERNS IN WATER QUALITY ADMINISTRATION. SECOND, THE BOOK OFFERS A SECTION ON THE PERSPECTIVES OF WATER QUALITY ADMINISTRATION. THIRD, THE BOOK PROVIDES A REVIEW OF THE POINT SOURCE PROBLEM. FINALLY, THE BOOK ADDRESSES NONPOINT SOURCES OF POLLUTION. THE BOOK IS DIRECTED TOWARD A WIDE RANGE OF AUDIENCES INCLUDING ENGINEERS, TECHNICAL PERSONNEL, PLANNERS, AND ADMINISTRATORS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005941

PUBLICATION DATE: SEP 80

TITLE: ADULT DEVELOPMENT AND APPROACHES TO LEARNING.

PERSONAL AUTHOR: LASKER, HARRY; AND OTHERS

DESCRIPTOR: *ADULT EDUCATION; *EDUCATIONAL PSYCHOLOGY; *INSTRUCTION; *LEARNING THEORIES; *POST SECONDARY EDUCATION; PSYCHOLOGY; *RESEARCH; *STATE OF THE ART REVIEWS; TEACHING METHODS

DESCRIPTIVE NOTE: 74P.

ABSTRACT: THIS PUBLICATION CONTAINS TWO PAPERS WHICH EXAMINE THE DYNAMIC NATURE OF ADULTHOOD AND THE IMPLICATIONS OF THIS ON ADULT LEARNING. THE FIRST PAPER, CURRENT STUDIES OF ADULT DEVELOPMENT: IMPLICATIONS FOR EDUCATION, CONTAINS THE FOLLOWING SECTIONS: THE STUDY OF ADULT DEVELOPMENT; AGE-RELATED PHASES IN ADULT DEVELOPMENT; DEVELOPMENTAL STAGES IN ADULTHOOD; AND ADULT DEVELOPMENT: NOTES ON THE FUTURE. THE SECOND PAPER, ADULT LEARNING THEORY: A STATE OF THE ART, CONTAINS THE FOLLOWING SECTIONS: WHAT ARE LEARNING AND THEORY?; RECENT RESEARCH ON ADULT LEARNING; PRINCIPLES AND CONDITIONS FOR THE PRACTICE OF ADULT LEARNING, AND DIRECTIONS FOR FURTHER RESEARCH.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW005942

PUBLICATION DATE: 80

TITLE: ADULT LEARNING PROBLEMS: INSIGHTS, INSTRUCTION, AND IMPLICATIONS.

PERSONAL AUTHOR: WEISEL, LAURA PELTZ

DESCRIPTOR: *ADULT EDUCATION; *ADULT LEARNING; ADULT VOCATIONAL EDUCATION; EDUCATIONAL ASSESSMENT; *EDUCATIONAL PROGRAMS; *EDUCATIONAL STRATEGIES; INSTRUCTIONAL MATERIALS; LEARNING PROBLEMS; LEARNING THEORIES; *POST SECONDARY EDUCATION; PROGRAM PLANNING; *TEACHING METHODS

DESCRIPTIVE NOTE: 54P.

ABSTRACT: THIS PAPER ATTEMPTS TO PROVIDE INFORMATION IN RESPONSE TO THE NEEDS OF EDUCATORS OF ADULTS WITH LEARNING PROBLEMS. FOR THE ADULT EDUCATION TEACHER, INFORMATION IS OFFERED ON THE NATURE OF LEARNING, INFORMATION PROCESSING, PROBLEMS THAT CAN BE DIAGNOSED, AND STRATEGIES SUITABLE FOR ADULTS WITH LEARNING PROBLEMS. FOR THE ADMINISTRATOR, FOCUS IS DIRECTED TOWARD PROGRAMMATIC IMPLICATIONS AND SERVICES FOR ADULTS WITH LEARNING PROBLEMS. SECTION 1 EXAMINES LEARNING PROBLEMS AND PROVIDES OBSERVABLE CHARACTERISTICS OF ADULTS WITH LEARNING PROBLEMS, INSIGHT INTO HOW THE BRAIN FUNCTIONS, HOW INFORMATION IS PROCESSED, AND SOME REASONS LEARNING PROBLEMS EXIST. SECTION 2 LOOKS AT DIAGNOSIS OF ADULT LEARNING PROBLEMS, INCLUDING THE PURPOSES OF A DIAGNOSIS AND SEVEN STEPS IN THE DIAGNOSTIC PROCEDURE. SECTION 3 OFFERS STRATEGIES FOR APPLICATION OF DIAGNOSIS TO INSTRUCTION. THE FINAL SECTION PROVIDES RECOMMENDATIONS FOR PROGRAM PLANNING AND DESIGN BY OFFERING EDUCATIONAL ALTERNATIVES WHICH INCORPORATE THE PRESENT KNOWLEDGE OF ADULT LEARNING PROBLEMS.

AVAILABILITY: ERIC CLEARINGHOUSE ON ADULT, CAREER, AND VOCATIONAL EDUCATION, THE NATIONAL CENTER FOR RESEARCH IN VOCATIONAL EDUCATION, THE OHIO STATE UNIVERSITY, 1960 KENNY ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW005943

PUBLICATION DATE: JAN 81

TITLE: A LOOK AT EPA'S NEW 1990 STRATEGY.

PERSONAL AUTHOR: GRAMS, R. E.

DESCRIPTOR: *COMPLIANCE; CLEAN WATER ACT; CONSTRUCTION GRANTS PROGRAM; *ENVIRONMENTAL PROTECTION AGENCY; *FACILITIES; *FUNDING; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PLANNING; *PROGRAM PLANNING

DESCRIPTIVE NOTE: 10-15P.

ABSTRACT: THE U. S. ENVIRONMENTAL PROTECTION AGENCY HAS EMBARKED UPON A COURSE OF STUDY TO DETERMINE ITS PATH FOR THE NEXT DECADE AND BEYOND- "THE 1990 STRATEGY". THIS STRATEGY WILL PROVIDE CONCRETE, LONG-TERM GUIDANCE FOR THE AGENCY IN ITS DAY-TO-DAY ACTIVITIES. THE FIVE-PRONGED STRATEGY IS SUBDIVIDED INTO TREATMENT PLANT FUNDING, MANAGEMENT, OPERATIONS, COMPLIANCE AND PLANNING.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005944

PUBLICATION DATE: JAN 81

TITLE: REAGAN TEAM'S BLUEPRINT TO EPA.

DESCRIPTOR: *CONSERVATION; *ENVIRONMENTAL PROTECTION AGENCY; *HERITAGE FOUNDATION; *MANAGEMENT; *POLICY; *PROGRAM PLANNING; *PROGRAM REVIEWS; *WATER QUALITY

DESCRIPTIVE NOTE: 16-20P.

ABSTRACT: THIS ARTICLE CONTAINS EXCERPTS FROM THE RECOMMENDATIONS MADE BY THE HERITAGE FOUNDATION IN THEIR REPORT, "MANDATE FOR LEADERSHIP: POLICY MANAGEMENT IN A CONSERVATIVE ADMINISTRATION". THIS REPORT WAS PRODUCED BY A WASHINGTON-BASED CONSERVATIVE THINKTANK TO AID THE REAGAN TRANSITION TEAM AND TO EMPHASIZE VARIOUS CONSERVATION GOALS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005945

PUBLICATION DATE: JAN 81

TITLE: EVALUATION OF EXTENDED AERATION ACTIVATED SLUDGE

PACKAGE PLANTS.

PERSONAL AUTHOR: GUO, PAUL H. M.; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; AERATION; COST EFFECTIVENESS; DESIGN; *EVALUATION; *FACILITIES; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PACKAGE PLANTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 33-42P.

ABSTRACT: THIS ARTICLE DESCRIBES A COMPREHENSIVE STUDY INVOLVING 20 EXTENDED AERATION ACTIVATED SLUDGE PACKAGE PLANTS TREATING WASTES FROM DIFFERENT ESTABLISHMENTS. THE STUDY AIMED TO ASSESS THE PERFORMANCE AND TO IDENTIFY THE PROBLEMS ASSOCIATED WITH PACKAGE TREATMENT PLANTS. RESULTS INDICATED THAT GREATER THAN 50% OF PLANTS INVESTIGATED DID NOT ACHIEVE THE ANTICIPATED LEVEL OF PERFORMANCE. A DETAILED DISCUSSION OF THE INDIVIDUAL PROBLEMS ENCOUNTERED AT THE PACKAGE PLANT, TOGETHER WITH THEIR CORRECTIVE MEASURES, IS PRESENTED IN THE PAPER.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005946

PUBLICATION DATE: JAN 81

TITLE: FAULT TREE ANALYSIS AND TREATMENT PLANT INSTRUMENTATION.

PERSONAL AUTHOR: KELLEY, DAVID L.; ALLISON, RICHARD C.

DESCRIPTOR: *ADVANCED WASTEWATER TREATMENT; *FACILITIES; *FAULT TREE ANALYSIS; *INSTRUMENTATION; *MANAGEMENT; MAINTENANCE; *MONITORING; OPERATIONS (WASTEWATER); OPERATIONAL PROBLEMS; PLANT MANAGEMENT; *PROCESS CONTROLS; SENSORS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 43-47P.

ABSTRACT: THIS PAPER PROPOSES THAT MANAGEMENT OF TREATMENT AIDED BY REMOTE MONITORING OF THE PLANTS TREATMENT PROCESSES WILL INCREASE PLANT PERFORMANCE. FAULT TREE ANALYSIS IS USED TO DETERMINE LIKELY FAILURE POSSIBILITIES IN THE PLANTS TREATMENT PROCESSES. THIS ANALYSIS IS THEN USED TO DETERMINE PROCESS MONITORING POINTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005947

PUBLICATION DATE: JAN 81

TITLE: TESTING AERATION EQUIPMENT IN CONVENTIONAL ACTIVATED SLUDGE PLANTS.

PERSONAL AUTHOR: MCKINNEY, ROSS E.

DESCRIPTOR: *AERATION; *AERATION EQUIPMENT; *ACTIVATED SLUDGE; CONTACT STABILIZATION; DISSOLVED OXYGEN; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); OXYGEN TRANSFER; OXYGEN UPTAKE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 48-58P.

ABSTRACT: OXYGEN UPTAKE RATES WERE DETERMINED AT UNIFORM INTERVALS ALONG AERATION TANKS STARTING AT THE INFLUENT END AND PROGRESSING TO THE EFFLUENT END. FIELD TESTS WERE CARRIED OUT ON 11 AERATION TANKS LOCATED IN 4 CITIES. THE DATA INDICATED THAT OXYGEN DEMAND DECREASED ALONG THE AERATION TANK AND RAPID MIXING WAS OCCURRING. BY DETERMINING THE TIME OF FLOW THROUGH AN AERATION TANK, BASED ON QUANTITY OF FLOW, IT IS POSSIBLE TO CALCULATE THE OXYGEN TRANSFER RATE IN THE TANK.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005948

PUBLICATION DATE: JAN 81

TITLE: VACUUM WASTEWATER COLLECTION: THE ALTERNATIVE SELECTED IN QUEEN ANNE'S COUNTY, MARYLAND.

PERSONAL AUTHOR: HASSETT, ALAN F.; STARNES, JOHN C.

DESCRIPTOR: *COST EFFECTIVENESS; *DESIGN; FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER; *VACUUM WASTEWATER COLLECTION; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 59-65P.

ABSTRACT: A VACUUM SEWER PROJECT IS DESCRIBED FOR QUEEN ANNE'S COUNTY, MARYLAND THAT REPRESENTS THE LARGEST PUBLICLY FUNDED VACUUM WASTEWATER COLLECTION SYSTEM IN NORTH AMERICA. CERTAIN FACTORS ASSOCIATED WITH THE AREA INDICATED THAT VACUUM SYSTEMS WOULD BE MORE COST EFFECTIVE THAN EITHER GRAVITY OR PRESSURE COLLECTION SYSTEMS. THE SERVICE AREA HAS A HIGH GROUNDWATER TABLE, UNSTABLE SOILS, AND A SIGNIFICANT PROPORTION OF CLUSTER DEVELOPMENT, CONDITIONS WHICH FAVOR A VACUUM WASTEWATER COLLECTION SYSTEM FROM BOTH A COST AND A PERFORMANCE VIEWPOINT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005949

PUBLICATION DATE: JAN 81

TITLE: ANAEROBIC DIGESTION OF BREWERY BY-PRODUCTS.

PERSONAL AUTHOR: KEENAN, JOHN D.; KORMI, IRAJ

DESCRIPTOR: *ANAEROBIC DIGESTION; *BREWERY WASTES; BREWERY INDUSTRY; *COST EFFECTIVENESS; *DESIGN; *ENERGY; *ENERGY CONSERVATION; FERMENTATION; INDUSTRY; METHANE; *RESOURCE

RECOVERY; WASTE DISPOSAL

DESCRIPTIVE NOTE: 66-77P.

ABSTRACT: RESULTS OF A STUDY HAVE SHOWN THAT ENERGY RECOVERY IN THE BREWERY INDUSTRY BY MEANS OF MESOPHILIC ANAEROBIC DIGESTION OF PROCESS BY-PRODUCTS IS TECHNICALLY FEASIBLE. IT WAS CONCLUDED THAT THE OPTIMAL DESIGN CRITERIA SHOULD BE A 10-DAY DETENTION TIME WITH A LOADING RATE OF SIX DRY GRAMS PER LITER PER DAY. FOR A TYPICAL ONE MILLION BARRELS PER YEAR THIS WOULD YIELD ABOUT 17% OF THE TOTAL ENERGY REQUIREMENT, OR 34% OF THE NATURAL GAS REQUIREMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005950

PUBLICATION DATE: JAN 81

TITLE: MIXING EFFICIENCIES IN FULL-SCALE ANAEROBIC DIGESTERS BY TRACER METHODS.

PERSONAL AUTHOR: MONTEITH, HUGH D.; STEPHENSON, JOE P.

DESCRIPTOR: *ANAEROBIC DIGESTERS; *DIGESTERS; *DESIGN; *EFFICIENCY; *EVALUATION; *OPERATIONS (WASTEWATER); *SLUDGE; *TRACER METHODS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 78-84P.

ABSTRACT: TRACE ANALYSIS OF THE FULL-SCALE ANAEROBIC DIGESTION PROCESSES AT TWO WATER POLLUTION CONTROL PLANTS REVEALED THAT NON-IDEAL MIXING CONDITIONS EXISTED. THE FUNDAMENTAL OBJECTIVES OF DIGESTION CANNOT BE REALIZED UNDER THESE OPERATING CONDITIONS. THE RESULTS SHOW THAT GREATER ATTENTION MUST BE GIVEN TO REACTOR MIXING IN THE DESIGN AND OPERATION OF ANAEROBIC DIGESTES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005951

PUBLICATION DATE: JAN 81

TITLE: PRODUCTION OF SOLUBLE ORGANIC NITROGEN DURING ACTIVATED SLUDGE TREATMENT.

PERSONAL AUTHOR: PARKIN, GENE F.; MCCARTY, PERRY L.

DESCRIPTOR: *ACTIVATED SLUDGE; *NITROGEN; ORGANICS; *ORGANIC NITROGEN; *OPERATIONS (WASTEWATER); SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 99-112P.

ABSTRACT: THE SOURCES OF SOLUBLE ORGANIC NITROGEN PRODUCD DURING ACTIVATED SLUDGE TREATMENT WERE EVALUATED. THREE SOURCES OF BIOLOGICALLY PRODUCED SOLUBLE ORGANIC NITROGEN WERE FOUND. EXCRETED MATERIALS ACCOUNT FOR 20-50%; THE RESULTING CONCENTRATION IS IN EQULIBRIUM WITH THE ACTIVATED SLUDGE ORGANISMS, INDEPENDENT OF ORGANISM CONCENTRATION AND TEMPERATURE, BUT DEPENDENT ON CULTURE CHARACTERISTICS. ORGANISM DECAY MAY ACCOUNT FOR 20-50%; THE CONCENTRATION IS DEPENDEDNT UPON MIXED LIQUID SUSPENDED SOLIDS CONCENTRATION AND DETENTION TIME. A THIRD SOURCE IS SOLUBLE ORGANIC NITROGEN SUBSTRATE OXIDATION; IN MOST EXPERIMENTS THIS SOURCE PRODUCED A SMALL AMOUNT IN COMPARISION TO THE OTHER TWO.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005952

PUBLICATION DATE: JAN 81

TITLE: POINT-VELOCITY DISCHARGE MEASUREMENT METHOD FOR SEWERS.

PERSONAL AUTHOR: PARR, A. DAVID; AND OTHERS

DESCRIPTOR: EMPIRICAL CURVES; *ENGINEERING; *FLOW; *MEASUREMENT; *POINT DISCHARGE; *SEWERS; *SEWER FLOW; *VELOCITY MEASUREMENTS; *WASTEWATER

DESCRIPTIVE NOTE: 113-118P.

ABSTRACT: A STUDY WAS PERFORMED TO DEVELOP A METHOD WHEREBY DISCHARGE IN A PARTIALLY FULL SEWER COULD BE DETERMINED FROM A DEPTH MEASUREMENT AND A VELOCITY MEASUREMENT AT A SINGLE LOCATION ON THE VERTICAL CENTERLINE OF THE PIPE. A SERIES OF EXPERIMENTS WAS PERFORMED TO ESTABLISH DIMENSIONLESS VELOCITY PROFILES AS FUNCTIONS OF RELATIVE DEPTH OF FLOW. A CENTERLINE VELOCITY DISTRIBUTION FUNCTION WAS THEN FORMULATED AND COMBINED WITH MANNING'S EQUATION TO GIVE A DISCHARGE FORMULA FOR FULLY ROUGH TURBULENT FLOW IN PARTICALLY FULL SEWERS. THE DISCHARGE FORMULA WILL ENABLE ENGINEERS TO MEASURE SEWER FLOW WITHOUT INSTALLING IN-LINE WIRES AND FLUMES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N1

IRIS ACCESSION NUMBER: EW005953

PUBLICATION DATE: MAY 73

TITLE: NUTRIENT CONVERSION PROCESS

DESCRIPTOR: CASE STUDIES; *COST EFFECTIVENESS; DOMESTIC WASTES; INDUSTRIAL WASTES; *NUTRIENTS; PROTEIN; *RESEARCH REPORTS; *RESOURCE RECOVERY; *RECYCLING; *SANITATION; *SEWAGE; *WASTE DISPOSAL; WATER POLLUTION; WATER RESOURCES; *YEAST

DESCRIPTIVE NOTE: 338P.

ABSTRACT: THIS PROJECT ADDRESSES THE PROBLEM OF DISPOSAL OF

INDUSTRIAL AND DOMESTIC SEWAGE. MORE SPECIFICALLY, IT IS CONCERNED WITH RECLAIMING AT LEAST A PORTION OF THE NUTRIENTS IN SEWAGE AND CONVERTING THEM INTO A USEFUL COMMODITY-PROTEIN. THE STUDY EXAMINES IN DETAIL THE PROCESS OF GROWING YEAST ON SEWAGE IN ORDER TO PRODUCE A PROTEIN WHICH CAN BE ADDED TO ANIMAL FEEDS. THE PROJECT HAD FOUR MAJOR COMPONENTS: BIOLOGICAL RESEARCH AND DEVELOPMENT, PILOT PLANT CONSTRUCTION AND OPERATION, PROCESS ECONOMICS, AND YEAST MARKET ANALYSIS AND OVERALL SYSTEM ECONOMICS. GROWTH CURVES OF TWO TYPES OF YEAST GROWN ON ACTIVATED SLUDGE AND PRIMARY SEWAGE WERE OBTAINED AND THE EFFECTS OF YEAST GROWTH IN SEWAGE TREATMENT WERE INVESTIGATED. A FULL SCALE PLANT WAS DESIGNED AND OPTIMIZED AND A PLANT COST FIGURE WAS DETERMINED. IT WAS DETERMINED THAT THE FEED INDUSTRY IS SUSCEPTIBLE TO PURCHASING YEAST UNDER COMPETITIVE CONDITIONS AND THAT THE PROCESS APPEARS TO BE COST EFFECTIVE.

AVAILABILITY: INTERDISCIPLINARY DESIGN PROGRAM, CARNEGIE INSTITUTE OF TECHNOLOGY, CARNEGIE-MELLON UNIVERSITY, PITTSBURGH, PA 15213

IRIS ACCESSION NUMBER: EW005958

PUBLICATION DATE: 80

TITLE: MOLECULAR BASIS OF ENVIRONMENTAL TOXICITY.

PERSONAL AUTHOR: BHATNAGAR, RAJENDRA S.

DESCRIPTOR: BIOLOGY; *CHEMICAL REACTIONS; *CELL BIOLOGY; CARCINOGENS; *ENVIRONMENTAL TOXICITY; PUBLIC HEALTH; *TOXICITY; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 582P. PRICE: $39.95

ABSTRACT: CHRONIC EXPOSURE TO A TOXIN IS ACCOMPANIED BY A VARIETY OF RESPONSES IN THE ORGANISM, WHICH MAY ALTER STRUCTURE, FUNCTION, AND PHYSIOLOGICAL PARAMETERS OF THE AFFECTED SYSTEMS AND LEAD TO IMPAIRED FUNCTION OR DISEASE WITHOUT MAKING ANY IMMEDIATELY OBVIOUS ALTERATION. THE TOXIN MAY INTERACT WITH SPECIFIC CELLULAR SITES OR INTERFERE WITH BIOCHEMICAL PATHWAYS, RESULTING IN CELLULAR DAMAGE. THE MECHANISMS OF SUCH INTERACTIONS ARE THE TOPIC OF THE PAPERS PRESENTED IN THESE PROCEEDINGS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005959

PUBLICATION DATE: 80

TITLE: FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT.

PERSONAL AUTHOR: JORDAN, RANDOLPH E.; PAYNE, JAMES R.

DESCRIPTOR: *BIOLOGICAL EFFECTS; *CHEMICAL EFFECTS; *DEGREDATION; ESTUARINE ENVIRONMENTS; *LITERATURE REVIEWS; *MARINE ENVIRONMENT; *OIL POLLUTION; *PETROLEUM SPILLS; POULUTION; *WATER POLLUTION; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 174P. PRICE: $20.00, OR#250-40381-1

ABSTRACT: THIS BOOK REVIEWS PUBLISHED RESEARCH STUDIES WHICH HAVE EXAMINED THE VARIOUS CHEMICAL AND PHYSICAL ALTERATIONS OCCURRING TO PETROLEUM AS A RESULT OF NATURAL PROCESSES. THE BOOK INCLUDES CHAPTERS ON ABIOTIC FACTORS AND PROCESSES, MICROBIAL DEGREDATION, PHYSICAL AND ENVIRONMENTAL INTERACTIONS OF SPILLED OIL AND APPROACHES TO MASS BALANCE PROBLEMS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, C/O BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW005960

PUBLICATION DATE: 80

TITLE: TO CHOOSE A FUTURE.

PERSONAL AUTHOR: RIDKER, RONALD G.; WATSON, WILLIAM D.

DESCRIPTOR: AGRICULTURE; COSTS; *ECONOMIC FACTORS; ENERGY; *ENVIRONMENTAL QUALITY; ENVIRONMENTAL RESEARCH; *FUTURES (OF SOCIETY); *MANAGEMENT; MINERALS; *MODELS; *NATURAL RESOURCES; POLLUTION CONTROL; *PROJECTIONS; PUBLIC POLICY

DESCRIPTIVE NOTE: 464P. PRICE: $33.50

ABSTRACT: THIS BOOK REPRESENTS AN ATTEMPT TO ASSESS THE RESOURCE AND ENVIRONMENTAL PROBLEMS THAT THE UNITED STATES MAY FACE OVER THE NEXT 50 YEARS. THE CONSEQUENCES OF ALTERNATIVE POPULATION AND ECONOMIC GROWTH RATES, TECHNOLOGICAL CHANGE, AND TRADE, ENVIRONMENTAL, AND NUCLEAR POLICIES ARE EXAMINED USING LARGE-SCALE, COMPUTER-BASED MODELS, AS WELL AS MORE CONVENTIONAL METHODS. TOPICS DISCUSSED INCLUDE: THE NATIONAL ECONOMY, NONFUEL MINERALS, ENERGY, AGRICULTURE, POLLUTION COSTS AND BENEFITS, AND OTHER ENVIRONMENTAL CONCERNS.

AVAILABILITY: THE JOHNS HOPKINS UNIVERSITY PRESS, HOMEWOOD, BALTIMORE, MD 21218

IRIS ACCESSION NUMBER: EW005963

PUBLICATION DATE: JAN 81

TITLE: NO NONSENSE MANAGEMENT: KEY TO SU[illegible]SSFUL WASTEWATER PLANT OPERATION.

PERSONAL AUTHOR: KEIL, KEN; AND OTHERS

DESCRIPTOR: *COST EFFECTIVENESS; COSTS; FACILITIES; *MAINTENANCE; *MANAGEMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 61-64P.

ABSTRACT: THIS ARTICLE DESCRIBES HOW THE PERFORMANCE OF ONE

LARGE WASTEWATER TREATMENT PLANT HAS BEEN DRAMATICALLY IMPROVED BY ESTABLISHING SOUND MANAGEMENT TECHNIQUES. IN ADDITION TO THE INCREASE IN EFFICENCY, THE IMPROVEMENTS HAVE RESULTED IN A REDUCTION IN OPERATION AND MAINTENANCE COSTS.

AVAILABILITY: PUBLIC WORKS, V112 N1

IRIS ACCESSION NUMBER: EW005964

PUBLICATION DATE: JAN 81

TITLE: ECONOMICAL "ZERO" DISCHARGE ACHIEVED AT WATER PLANT.

PERSONAL AUTHOR: WOODS, RAYMOND C.

DESCRIPTOR: COST EFFECTIVENESS; *DISCHARGES; ENGINEERING; *EFFLUENTS; *OPERATIONS (WATER); *SETTLING TANKS; *WATER TREATMENT; *WASTE DISPOSAL; WATER QUALITY

DESCRIPTIVE NOTE: 65P.

ABSTRACT: THIS ARTICLE DESCRIBES HOW THE CITY OF LEWISBURG, TENNESSEE MET THE FEDERAL AND STATE MANDATES OF REQUIRING THE TREATMENT OR ELIMINATION OF FILTER BACKWASH WATER AND CLARIFIER UNDERFLOW. THE CITY ACTED AS ITS OWN GENERAL CONTRACTOR FOR THE PROJECT AND ENGINEERED AND CONSTRUCTED A LARGE REINFORCED SETTLING TANK TO DEAL WITH THE WASTES. THE NEW FACILITIES HAVE IMPROVED PLANT OPERATION, REDUCED CHEMICAL COSTS AND RESULTED IN ZERO DISCHARGE OF WASTES TO THE RIVER.

AVAILABILITY: PUBLIC WORKS, V112 N1

IRIS ACCESSION NUMBER: EW005965

PUBLICATION DATE: JAN 81

TITLE: ENERGY RECOVERY ON HIGH PRESSURE WATER CONDUITS.

PERSONAL AUTHOR: MACDONALD, DAVID V.

DESCRIPTOR: *ENERGY CONSERVATION; *ENERGY; FLOW ANALYSIS; *HYDROELECTRIC PLANTS; MANAGEMENT; *RESOURCE RECOVERY; WATER RESOURCES; WATER SUPPLY; *WATER CONDUITS

DESCRIPTIVE NOTE: 72-75P.

ABSTRACT: IN SOUTHERN CALIFORNIA, SEVERAL WATER SUPPLY AGENCIES ARE EVALUATING THE RECOVERY OF ENERGY FROM HIGH-PRESSURE WATER CONDUITS. FACTORS DESERVING CONSIDERATION IN ANY FEASIBILITY ANALYSIS ARE DISCUSSED IN THIS PRESENTATION.

AVAILABILITY: PUBLIC WORKS, V112 N1

IRIS ACCESSION NUMBER: EW005966

PUBLICATION DATE: JAN 81

TITLE: A PERFORMANCE EVALUATION OF PACKAGE WATER TREATMENT PLANTS.

PERSONAL AUTHOR: MORNAD, JAMES M.; COBB, CRAIG R.

DESCRIPTOR: *EVALUATION; *FIELD STUDIES; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *PACKAGE WATER TREATMENT PLANTS; *PACKAGE PLANTS; *WATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 76-77, 104, 106P.

ABSTRACT: THIS ARTICLE DESCRIBES A STUDY OF THE EFFECTIVENESS OF OPERATING A PACKAGE WATER TREATMENT PLANT. A FIELD STUDY WAS MADE OF PLANTS IN KENTUCKY, WEST VIRGINIA AND TENNESSEE. THE STUDY DATA DEMONSTRATE THAT PACKAGE PLANTS CAN MEET TRADITIONAL GOALS WITH REGARD TO BACTERIOLOGY AND TURBIDITY REQUIREMENTS OF THE SAFE DRINKING WATER ACT IN A COST EFFECTIVE MANNER.

AVAILABILITY: PUBLIC WORKS, V112 N1

IRIS ACCESSION NUMBER: EW005967

PUBLICATION DATE: FEB 81

TITLE: WASTEWATER TREATMENT PLANT FEATURES PUMPING FLEXIBILITY.

PERSONAL AUTHOR: ELBERT, GARY; THORNTON, MARVIN L.

DESCRIPTOR: COST EFFECTIVENESS; *DESIGN; ELECTRICAL EQUIPMENT; ENVIRONMENTAL REGULATIONS; EFFLUENT STANDARDS; *FACILITIES; *PUMPS; *PLANT DESIGN; SEWAGE; *SUBMIRSIBLE PUMPS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 70-71P.

ABSTRACT: THE WASTEWATER TREATMENT PLANT OF INDIANOLA, IOWA, IS UNIQUE IN THAT IT EMPLOYS ELECTRIC SUBMERSIBLE PUMPS TO HANDLE PRACTICALLY THE ENTIRE PLANT FLOW. THIS ARTICLE DESCRIBES THE PLANNING AND CONSTRUCTION OF THE NEW TREATMENT PLANT WHICH WAS DESIGNED TO COMPLY WITH ENVIRONMENTAL REGULATIONS.

AVAILABILITY: PUBLIC WORKS, V112 N2

IRIS ACCESSION NUMBER: EW005968

PUBLICATION DATE: FEB 81

TITLE: MEMBRANE LINER SEALS 278-ACRE RESERVOIR.

DESCRIPTOR: *COST EFFECTIVENESS; *CONSTRUCTION; *DESIGN; ENGINEERING; HYDROELECTRIC POWER; *MEMBRANE LINERS; POWER PLANTS; *RESERVOIRS; *WATER SUPPLY; *WATER STORAGE

DESCRIPTIVE NOTE: 72-74P.
ABSTRACT: THIS ARTICLE DESCRIBES THE SELECTION AND CONSTRUCTION OF A MEMBRANE LINER. THIS SINGLE-CELL PANEL LINER IS THE LARGEST IN THE WORLD, AND IT FORMS THE BASIS OF A RESERVOIR FOR THE GENERATION OF HYDROELECTRIC POWER IN COLORADO.

AVAILABILITY: PUBLIC WORKS, V112 N2

IRIS ACCESSION NUMBER: EW005969

PUBLICATION DATE: FEB 81

TITLE: SLUDGE DIGESTER CLEANING BY CONTRACT.

DESCRIPTOR: *CLEANING; *CONTRACTING; *DIGESTERS; *FACILITITS; *MAINTENANCE; *PERSONNEL; SLUDGE; *SLUDGE DIGESTER; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 76-77P.

ABSTRACT: THIS ARTICLE DESCRIBES THE ARRANGEMENT AT TWO WASTEWATER TREATMENT PLANTS IN COLUMBUS, OHIO, WHEREBY AN INDEPENDENT DREDGING AND PUMPING COMPANY HAS BEEN CONTRACTED FOR THE REMOVAL OF ACCUMULATED GRIT FROM THE DIGESTERS. THIS ARRANGEMENT APPEARS COST EFFECTIVE, ELIMINATES CREW SCHEDULING PROBLEMS, AND AVOIDS CONCERNS ABOUT CITY PERSONNEL BECOMING INJURED IN DOING JOBS FOR WHICH THEY HAVE NOT BEEN TRAINED.

AVAILABILITY: PUBLIC WORKS, V112 N2

IRIS ACCESSION NUMBER: EW005970

PUBLICATION DATE: FEB 81

TITLE: ENVIRONMENTAL CONFLICT RESOLUTION.

PERSONAL AUTHOR: BUSTERUD, JOHN

DESCRIPTOR: *CASE STUDIES; CONFLICT; *DECISION MAKING; *ENVIRONMENTAL MANAGEMENT; *MANAGEMENT; *MEDIATION; POLICY FORMATION; PROBLEM SOLVING

DESCRIPTIVE NOTE: 150-155P.

ABSTRACT: THIS ARTICLE EXAMINES THE POTENTIAL FOR NONADVERSARIAL APPROACHES TO ENVIRONMENTAL DECISION-MAKING AND CONFLICT RESOLUTION. DISCUSSED ARE SPECIFIC CASE STUDIES OF ENVIRONMENTAL CONFLICT RESOLUTION, THE ACTIVITIES OF SEVERAL ORGANIZATIONS INVOLVED IN ENVIRONMENTAL MEDIATION, AND THE EVOLUTION OF THIRD PARTY MEDIATION AND CONFLICT RESOLUTION IN ENVIRONMENTAL MANAGEMENT CASES.

AVAILABILITY: ENVIRONMENTAL SCIENCE 8 TECHNOLOGY, V15 N2

IRIS ACCESSION NUMBER: EW005971
PUBLICATION DATE: FEB 81

TITLE: ORGANIC POLLUTANTS IN WATER: IDENTIFICATION AND ANALYSIS.

PERSONAL AUTHOR: KEITH, L. H.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; DATA COLLECTION; *IDENTIFICATION; *LABORATORY PROCEDURES; *ORGANIC POLLUTANTS; POLLUTANTS; SAMPLING; *TECHNOLOGICAL ADVANCEMENTS; TESTING; *WATER QUALITY

DESCRIPTIVE NOTE: 156-162P.

ABSTRACT: THIS ARTICLE PRESENTS SOME OF THE RECENT ADVANCES IN METHODS OF SAMPLING, ANALYSIS, IDENTIFICATION, AND QUANTIFICATION OF ORGANIC POLLUTANTS, AS WELL AS PROTOCOLS. TOPICS DISCUSSED ARE: DATA EVALUATIONS; MAN-MADE WATER POLLUTANTS; PCBS AND PESTICIDES; INDUSTRIAL WASTEWATERS; SURFACE WATERS; WATER TREATMENT; ADVANCES IN METHODOLOGY; PROTOCOLS; STABLE LABELED STANDARDS; SAMPLE CONCENTRATION; RESIN TECHNOLOGY; HPLC METHODOLOGY; SLUDGE METHODOLOGY; PURGE AND TRAP METHODOLOGY; AND NEW INSTRUMENTATION.

AVAILABILITY: ENVIRONMENTAL SCIENCE 8 TECHNOLOGY, V15 N2

IRIS ACCESSION NUMBER: EW005972

PUBLICATION DATE: 79

TITLE: ADVANCES IN ENVIRONMENTAL SCIENCE AND ENGINEERING, VOLUME 1.

PERSONAL AUTHOR: PFAFFLIN, JAMES R.; ZIEGLER, EDWARD N.

DESCRIPTOR: AIR POLLUTION; CHEMISTRY; *ENGINEERING; *ENVIRONMENTAL RESEARCH; LABORATORY TECHNIQUES; METEOROLOGY; POLLUTION CONTROL; *RESEARCH REPORTS; *SCIENCES; *STATE OF THE ART REVIEWS; TECHNOLOGICAL ADVANCEMENTS; WATER POLLUTION

DESCRIPTIVE NOTE: 320P. PRICE: $59.00

ABSTRACT: THIS PUBLICATION CONTAINS SIGNIFICANT RESEARCH IN ENVIRONMENTAL SCIENCE AND ENGINEERING. RESEARCH TOPICS INCLUDED IN THIS VOLUME INCLUDE: METEOROLOGICAL ASPECTS OF REGIONAL SCALE AIR QUALITY MODELING; HIGH RESOLUTION MODELS OF THE PLANETARY BOUNDARY LAYER; NATURAL REMOVAL OF GASEOUS POLLUTANTS; SIMULATING TURBULENT TRANSPORT IN URBAN AIR POLLUTION MODELS; APPLICATION OF PROBABILITY DENSITY AND INTERMITTENCY TO RANDOM PROCESSES IN ENVIRONMENTAL CHEMISTRY AND HYDRODYNAMICS; THREATS TO THE OZONE LAYER; PRECIPITATION COMPOSITION: NORTHEASTERN UNITED STATES; SULFATE FORMATION MECHANISM: THEORETICAL AND LABORATORY STUDIES; ADVANCES IN OCCUPATIONAL HEALTH: SCIENTIFIC ASPECTS; COMPOSTING PROCESSES; AND, RECENT ADVANCES IN WATER POLLUTION CONTROL TECHNOLOGY.

AVAILABILITY: GORDON AND BREACH SCIENCE PUBLISHERS, ONE PARK AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005973

PUBLICATION DATE: 79

TITLE: ADVANCES IN ENVIRONMENTAL SCIENCE AND ENGINEERING.

PERSONAL AUTHOR: PFAFFLIN, JAMES R.; ZIEGLER, EDWARD N.

DESCRIPTOR: AIR POLLUTION; ASSESSMENT; *ENGINEERING; *ENVIRONMENTAL RESEARCH; LAWS; MODELING; *POLLUTION CONTROL; *RESEARCH REPORTS; *SCIENCES; STATE OF THE ART REVIEWS; TECHNOLOGICAL ADVANCEMENTS; WATER POLLUTION

DESCRIPTIVE NOTE: 228P. PRICE: $59.00

ABSTRACT: THIS PUBLICATION CONTAINS SIGNIFICANT RESEARCH IN ENVIRONMENTAL SCIENCE AND ENGINEERING. RESEARCH TOPICS INCLUDED IN THIS VOLUME ARE: FEDERAL WATER POLLUTION CONTROL LAW SINCE 1972; NEW ASPECTS OF WATER QUALITY CRITERIA; ENVIRONMENTAL ASSESSMENTS AND RELATED IMPACTS; ADVANCES IN OCCUPATIONAL HEALTH: IMPACT OF LEGISLATION; PROBLEMS IN THE ASSESSMENT OF AIR POLLUTION EFFECTS ON VEGETATION; CONSISTENCY OF REPORTED EFFECTS OF AIR POLLUTION ON MORTALITY; MODELING REGIONAL ATMOSPHERIC TRANSPORT AND DIFFUSION: SOME ENVIRONMENTAL APPLICATIONS; AND, THE EFFECTS OF MIXING-HEIGHT VARIABILITY ON AIR QUALITY SIMULATION MODELS.

AVAILABILITY: GORDON AND BREACH SCIENCE PUBLISHERS, ONE PARK AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005974

PUBLICATION DATE: 80

TITLE: ADVANCES IN ENVIRONMENTAL SCIENCE AND ENGINEERING.

PERSONAL AUTHOR: PFAFFLIN, JAMES R.; ZIEGLER, EDWARD N.

DESCRIPTOR: AIR POLLUTION; ATMOSPHERIC SCIENCES; CHEMISTRY; *ENGINEERING; *ENVIRONMENTAL RESEARCH; ENVIRONMENT; LEGISLATION; *POLLUTION CONTROL; *RESEARCH REPORTS; *SCIENCES; *STATE OF THE ART REVIEWS; TECHNOLOGICAL ADVANCEMENTS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 300P. PRICE: $59.00

ABSTRACT: THIS PUBLICATION CONTAINS SIGNIFICANT RESEARCH IN ENVIRONMENTAL SCIENCE AND ENGINEERING. RESEARCH TOPICS INCLUDED IN THIS VOLUME ARE: OXIDATION AND OXIDATION/INHIBITION OF SULFUR DIOXIDE; INTEGRATION OF PHYSICAL-CHEMICAL PROCESSES IN BIOLOGICAL WASTEWATER TREATMENT; THE 1977 AMENDMENTS TO THE FEDERAL WATER POLLUTION CONTROL ACT; NITROGEN DIOXIDE ABSORPTION IN EVAPORATING AND CONDENSING WATER DROPLETS; ELECTROSTATIC PRECIPITATORS FOR PARTICLE CONTROL; RECENT ADVANCES IN HYDRODYNAMIC TREATMENT FOR A BOUYANT SURFACE DISCHARGE; THE CHEMISTRY AND TRANSPORT OF METHANE AND CARBON MONOXIDE IN THE TROPOSPHERE; INFLUENCE OF FOREST VEGETATION AND AGRICULTURE ON THE ACIDITY OF FRESH WATER; AND, RURAL OZONE -- SOURCES AND TRANSPORT.

AVAILABILITY: GORDON AND BREACH SCIENCE PUBLISHERS, ONE PARK AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005975

PUBLICATION DATE: JAN 81

TITLE: WATER MAIN FLUSHING.

PERSONAL AUTHOR: LAKSHMAN, BANGALORE T.

DESCRIPTOR: *CORROSION; *FLUSHING; *PIPES; UTILITIES; *WATER MAINS; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 28-29P.

ABSTRACT: THIS ARTICLE DESCRIBES A PERIODIC FLUSHING PROGRAM WHICH WAS INSTITUTED BY A PUBLIC WATER UTILITY IN NORTHERN DELAWARE. EVALUATION OF THE SYSTEM INDICATES THAT A WATER MAIN FLUSHING PROGRAM IS ONE OF THE WISEST AND MOST REALISTIC PROGRAMS FOR ANY AND ALL WATER SYSTEMS TO IMPROVE BOTH THE WATER QUALITY AND THE SYSTEM EFFICIENCY

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005976

PUBLICATION DATE: JAN 81

TITLE: WATER AND WASTE PROCESS CONTROL INSTRUMENTATION-- ANALYTICAL PARAMETERS AND THEIR MEASUREMENT.

PERSONAL AUTHOR: BABCOCK, RUSSELL H.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *INSTRUMENTATION; MAINTENANCE; *MEASUREMENT; *PROCESS CONTROLS; *WATER TREATMENT; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 30-32,91P.

ABSTRACT: THE MEASUREMENT OF ANALYTICAL PARAMETERS FOR WATER AND WASTE PROCESSES IS ESSENTIAL TO THE SUCCESSFUL CONTROL OF THE FACILITIES. THESE MEASUREMENTS CAN BE TROUBLESOME WHERE THEY INVOLVE MODIFICATIONS OF DELICATE LABORATORY DEVICES. INSTRUMENTS REQUIRE REGULAR MAINTENANCE AND REASONABLE CARE. THE WATER-AND WASTE-FACILITY MANAGER OR OPERATOR WHO TAKES THE TIME TO UNDERSTAND ANALYTICAL INSTRUMENTATION WILL FIND IT AN AID IN EFFICIENT, EFFECTIVE OPERATIONAL CONTROL.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005977

PUBLICATION DATE: JAN 81

TITLE: TREATMENT IMPROVED THROUGH PROCESS CONTROL.

PERSONAL AUTHOR: ROLAN, A. T.; AND OTHERS

DESCRIPTOR: ACTIVATED SLUDGE; *CONTROL TESTS; CONTROL ADJUSTMENTS; *OPERATIONS (WASTEWATER); *PROCESS CONTROLS; SLUDGE QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 33-36P.

ABSTRACT: CONTROL TESTS HELP PLANT OPERATORS DETERMINE THE CONTROL ADJUSTMENTS, (WASTING, RETURN SLUDGE RATE, DISSOLVED OXYGEN, ETC.) NEEDED TO MAINTAIN OR RESTORE OPTIMUM PROCESS BALANCE, SLUDGE QUALITY, AND FINAL EFFLUENT QUALITY. THIS ARTICLE DESCRIBES HOW THIS FACT WAS DEMONSTRATED AT AN ACTIVATED SLUDGE TREATMENT PLANT IN DURHAM, NORTH CAROLINA.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005978

PUBLICATION DATE: JAN 81

TITLE: CHANDLER'S SYSTEMS STAYING ON TOP OF GROWING NEEDS.

PERSONAL AUTHOR: GOFF, JAMES D.; VONDRICK, ART F.

DESCRIPTOR: AGRICULTURE; COST EFFECTIVENESS; *FACILITIES; *INDUSTRIAL GROWTH; *PLANNING; *URBAN AREAS; *WASTEWATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 42-43P.

ABSTRACT: BECAUSE OF THE EXPECTED INDUSTRIAL GROWTH IN THE AREA OF CHANDLER, ARIZONA, THE MAJOR EMPHASIS ON THE CITY'S RESOURCES IS RELATED TO EXPANSION, ADDITIONS, AND MODIFICATIONS TO ITS WATER AND WASTEWATER SYSTEMS. TO MEET THE NEEDS OF THE RAPIDLY GROWING COMMUNITY, CHANDLER IS PLANNING TO APPLY ITS WASTEWATER EFFLUENT TO AGRICULTURAL PURPOSES. THE PROGRAM IS USING CONSULTING ENGINEERING FIRMS TO OBTAIN ECONOMICAL AND COST EFFECTIVE DESIGNS AND FACILITIES. THE CITY PLANS TO ACT MULTILATERALLY IN WATER SUPPLY AS WELL AS WASTEWATER FACILITIES AND TO PROMOTE INDUSTRIAL EXPANSION.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005979

PUBLICATION DATE: JAN 81

TITLE: AWT OPERATING PROCEDURES.

PERSONAL AUTHOR: WILSON, E. D.; AND OTHERS

DESCRIPTOR: *ADVANCED WASTEWATER TREATMENT; *ACTIVATED SLUDGE; *CONTROL PROCEDURES; *BIOSOLIDS CONTROL; *OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 48-52P.

ABSTRACT: THE NORTH SHORE SANITARY DISTRICT OF LAKE COUNTY, ILLINOIS HAS DEVELOPED ITS OWN SPECIALIZED SET OF CONTROL PROCEDURES FOR ITS ADVANCED WASTEWATER TREATMENT ACTIVATED SLUDGE PLANTS. CONTROL OF MICROBIOLOGY IS CHIEFLY BY SLUDGE WASTING. ROUTINE CONTROL OF BIO-SOLIDS DISTRIBUTION IS DONE BY USING THE CENTRIFUGE NUMBER AND A SPECIALLY DEVELOPED INITIAL SETTLING VELOCITY TEST. THE USE OF THESE PROCEDURES HAS ALLOWED THE DISTRICT'S PLANTS TO COPE WITH: FILAMENTOUS BULKING, TOXICS, RECYCLE STREAMS, STORMWATER FLOWS, AND TO MEET RIGOROUS ENVIRONMENTAL STANDARDS.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005980

PUBLICATION DATE: JAN 81

TITLE: EXPERIENCES IN LIFT STATION OPERATION AND MAINTENANCE.

PERSONAL AUTHOR: NICOLAI, BRUNO

DESCRIPTOR: *LIFT STATIONS; *MAINTENANCE; *OPERATIONS (WASTEWATER); OVERFLOW; *PUMP STATIONS; PUMPS; REPAIRS; *SEWAGE; *WASTEWATER COLLECTION; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 55-56,80P.

ABSTRACT: THIS ARTICLE DESCRIBES THE AUTHOR'S EXPERIENCES WITH PUMP STATIONS IN MERIDEN, CONNECTICUT, WHICH WERE IN DIRE NEED OF REPAIRS AND PREVENTIVE MAINTENANCE. SINCE HE TOOK THE INITIAL RESPONSIBILITY FOR THE PUMPS MANY CHANGES HAVE BEEN MADE TO ACHIEVE PROPER OPERATION. BETTER PLANNING, INCREASED EFFICIENCIES, AND EVENTUAL PHASING OUT OR ELIMINATION OF STATIONS HAS ACHIEVED THE GOAL OF NO FUTURE POLLUTING OVERFLOWS TO RECEIVING STREAMS.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005981

PUBLICATION DATE: JAN 81

TITLE: HUMAN FACTORS IN DESIGN AND OPERATION OF WATER REUSE FACILITIES.

PERSONAL AUTHOR: MILLER, ROY D.; LAMBERT, WALTER P.

DESCRIPTOR: *DESIGN; *HUMAN FACTORS; MANAGEMENT; *OPERATIONS (WASTEWATER); ORGANIZATION; OPERATOR TRAINING; *RECYCLING; *REUSE FACILITIES; SANITARY ENGINEERING; *WATER REUSE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58-59,67-68P.

ABSTRACT: THE SUCCESS OF WASTEWATER REUSE AS A NATIONAL POLICY WILL DEPEND ON EXEMPLARY PERFORMANCE BY REUSE FACILITIES. PERFORMANCE WILL DEPEND ON OPERABILITY OF THE PLANT WITH THE WORKFORCE ON HAND. OPERABILITY WILL BE DETERMINED BY EXPLICIT DESIGN OF THE INTERFACES BETWEEN THE

PLANT OPERATOR, HIS MACHINES AND HIS MANAGEMENT ORGANIZATION. HUMAN FACTORS ENGINEERING CONCEPTS ARE RECOMMENDED FOR DESIGN OF BOTH INTERFACES. MANAGEMENT ORGANIZATION DESIGN IS RECOMMENDED AS AN EXPLICIT FUNCTION EXECUTED SIMULTANEOUSLY WITH FACILITY SYSTEM DESIGN. A MANAGEMENT STAFF POSITION IS RECOMMENDED FOR A SANITARY ENGINEER FOR THE PURPOSE OF PROVIDING TECHNICAL ASSISTANCE TO ALL LEVELS OF MANAGEMENT INCLUDING THE PLANT OPERATOR.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005982

PUBLICATION DATE: JAN 81

TITLE: CHLORINE EMERGENCY PREPAREDNESS DRILL.

PERSONAL AUTHOR: BOOTH, DAVID R.; FUTCH, MAJOR KELLY

DESCRIPTOR: *ACCIDENT PREVENTION; *CHLORINE; *DISINFECTION; *EMERGENCIES; *EMERGENCY DRILLS; HAZARDOUS CHEMICALS; *PUBLIC SAFETY; *PLANNING; *SAFETY; *WASTEWATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 60P.

ABSTRACT: WHEN THE LOCAL CIVIL DEFENSE COORDINATOR AND FIRE CHIEF MADE A SAFETY INSPECTION OF THE WATER AND WASTEWATER PLANTS, IN SULPHUR, LOUISIANA, SOME CONCERN WAS EXPRESSED ABOUT THE CHLORINE SYSTEMS - THEIR ACCESSIBILITY, EMERGENCY ALARMS, AND LENGTH OF TIME TO CAP A SERIOUS LEAK. TO ANSWER THESE QUESTIONS, IT WAS DECIDED THAT THE NEXT MONTHLY MUTUAL AID DRILL WOULD DEAL WITH A CHLORINE LEAK ENDANGERING THE 160 RESIDENT-POPULATION NURSING HOME. THE DRILL WAS A GREAT SUCCESS AND WILL BE REPEATED IN THE FUTURE TO ENHANCE THE EMERGENCY RESPONSE CAPABILITY.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005983

PUBLICATION DATE: JAN 81

TITLE: MEASUREMENTS: THE KEY TO LABORATORY ANALYSIS.

PERSONAL AUTHOR: CLARK, DOUGLAS W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; COLORIMETRY; *LABORATORY ANALYSIS; *MEASUREMENTS; OPERATIONS (WATER); OPERATIONS (WASTEWATER); *QUALITATIVE ANALYSIS; SPECTROPHOTOMETRY; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 63-66P.

ABSTRACT: THIS ARTICLE DEALS WITH MEASUREMENT METHODS WHICH ARE USED IN CHEMICAL ANALYSIS. THE METHODS DISCUSSED ARE USED TO COMPARE WATER SAMPLES WITH STANDARDS TO QUANTIFY WATER - QUALITY PROBLEMS AND IMPLEMENT TREATMENT OR CONTROL PROGRAMS TO BE IMPLEMENTED. THE AUTHOR DISCUSSES, MAKING COMPARISONS, THE ROLE OF MEASUREMENTS, HOW TO OBTAIN A

MEASURABLE PRODUCT, COLORIMETRY AND SPECTROPHOTOMETRY.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005984

PUBLICATION DATE: JAN 81

TITLE: IRON (IV) FERRATE MAY BE A FEASIBLE DISINFECTION AGENT.

DESCRIPTOR: BACTERIOLOGY; *DISINFECTION; *IRON FERRATE; PATHOGENS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 75P.

ABSTRACT: DESCRIBED IS A RECENT STUDY TO INVESTIGATE THE DISINFECTION CAPACITY OF FERRATE AGAINST INDICATOR AND PATHOGENIC ORGANISMS. BENCH SCALE PILOT STUDIES OF SECONDARY EFFLUENT TREATMENT WITH IRON (IV) FOUND THAT A FERRATE CONCENTRATION OF 10 MG/L EXHIBITED GOOD CAPABILITITY FOR REMOVAL OF SUSPENDED SOLIDS, ORGANICS, AND BACTERIA IN THE SECONDARY EFFLUENT.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005985

PUBLICATION DATE: JAN 81

TITLE: ON-SITE SEWAGE DISPOSAL ALTERNATIVES COMPARED.

DESCRIPTOR: *ALTERNATIVE WASTEWATER TREATMENT; *FACILITIES; MAINTENANCE; *ON-SITE DISPOSAL; *SEWAGE; SEPTIC LEACH FIELDS; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 76-78P.

ABSTRACT: SEPTIC - TANK LEACH- FIELD SYSTEMS ARE ONE APPROACH TO ON-SITE SEWAGE DISPOSAL FROM INDIVIDUAL DWELLINGS. HOWEVER, OTHER ALTERNATIVES ARE AVAILABLE. THIS ARTICLE EXAMINES DUAL LEACH FIELDS, VARIATIONS OF EVAPOTRANSPIRATION MOUNDS, SHALLOW-TRENCH LEACH FIELDS, FILTER BEDS, AND COMBINATION EVAPOTRANSPIRATION - PERCOLATION MOUNDS.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005986

PUBLICATION DATE: JAN 81

TITLE: GRINDER-PUMP PRESSURE-LINE CHECKS OUT AFTER FIVE YEARS.

PERSONAL AUTHOR: YOST, KENNETH J.

DESCRIPTOR: *ADMINISTRATIVE PROCEDURES; *COSTS; *EQUIPMENT

DESIGN; FACILITY DESIGN; *GRINDER PUMPS; *MAINTENANCE; *PUMPS; *PRESSURE LINES; *SEWAGE COLLECTION; *WASTE DISPOSAL; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 79,98P.

ABSTRACT: IN CERTAIN TYPOGRAPHICAL AND LOW DENSITY RESIDENTIAL SITUATIONS AN INDIVIDUAL GUIDE PUMP WITH A LOW-PRESSURE LINE IS THE NEAREST GRAVITY SEWAGE COLLECTION LINE CAN OFTEN APPEAR COST EFFECTIVE. PREBLE COUNTY'S SEWER DISTRICT HAS USED GARDEN PUMP SYSTEMS SINCE 1976 AND HAS FOUND THEIR PERFORMANCE QUITE SATISFACTORY. HOWEVER, FOR ALL THE SUCCESS OF THE GARDEN PUMPS, THERE HAVE BEEN CERTAIN MINOR IRRITATIONS THAT ARE WORTH NOTING BY DESIGNERS, WHO MAY THUS AVOID SIMILAR PROBLEMS. AT PREBLE THEY FALL INTO ONE OR MORE OF THREE CATEGORIES; EQUIPMENT DESIGN, FACILITY DESIGN, OR ADMINISTRATIVE PROCEDURES.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N1

IRIS ACCESSION NUMBER: EW005987

PUBLICATION DATE: 80

TITLE: PESTICIDE MANUFACTURING AND TOXIC MATERIALS CONTROL ENCYCLOPEDIA, 1980.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: *CHEMICAL INDUSTRY; *ENVIRONMENTAL HEALTH; *INDEXES; INFORMATION SOURCES; *MANUFACTURING; PEST CONTROL; *PESTICIDES; POLLUTION CONTROL; TOXICITY; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 810P. PRICE: $96.00

ABSTRACT; THIS BOOK CONTAINS A TOTAL OF 514 PESTICIDE MATERIALS ARRANGED IN AN ALPHABETICAL AND ENCYCLOPEDIC FASHION BY THE COMMON OR GENERIC NAME OF EACH PESTICIDE. IT CONTAINS EXTENSIVE INFORMATION (ALLOWABLE TOLERANCE LIMITS, ANIMAL AND HUMAN TOXICITIES, ETC.) AND SIMILAR DATA NOT EASILY ASCERTAINED ELSEWHERE. THE DATA ON MANUFACTURING PROCESSES WERE DRAWN PRIMARILY FROM THE PATENT LITERATURE, WHILE THE DATA ON PRODUCT TOXICITY, EMISSIONS AND PRODUCT USE CAME MOSTLY FROM PUBLISHED AND UNPUBLISHED REPORTS RELEASED BY THE USEPA. THIS BOOK SHOULD PROVE USEFUL TO PESTICIDE MANUFACTURERS, CHEMICAL RAW MATERIAL SUPPLIERS, GROWERS, FARMERS, FOOD PROCESSORS, LAWYERS, INDUSTRIAL HYGIENISTS, AND ENVIRONMENTALISTS.

AVAILABILITY: NOYES DATA CORPORATION, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW005988

PUBLICATION DATE: 73

TITLE: ANALYSIS OF PLANKTON.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *PLANKTON; *PLANKTON ANALYSIS; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FREE OF CHARGE, VIDEOCASSETTE, BLACK AND WHITE, 30 MINUTES

ABSTRACT: THIS PRESENTATION IS SUITABLE FOR USE IN PLANKTON ANALYSIS. THIS VIDEO CASSETTE REVIEW'S THE MANY TECHNIQUES WHICH ARE AVAILABLE FOR THE ANALYSIS OF PLANKTON. THE VIEWER SHOULD BE ABLE TO CHOOSE THE TESTS WHICH ARE MOST APPLICABLE FOR HIS TYPE OF PLANKTON SAMPLE.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005989

PUBLICATION DATE: 73

TITLE: ALGAE AS AN INDICATION OF POLLUTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ALGAE; *INSTRUCTIONAL MATERIALS; *INDICATOR ORGANISMS; MONITORING; POLLUTION; SAMPLING; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, COLOR, 30 MINUTES

ABSTRACT: THIS VIDEOCASSETTE IS AN EXPLANATION OF DR. PALMER'S POLLUTION INDEX USING ALGAE AS INDICATORS. THE VIEWER SHOULD BE ABLE TO APPLY THE INDEX TO HIS OWN LOCAL WATER SAMPLES OF LAKES AND STREAMS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005990

PUBLICATION DATE: 73

TITLE: SEWAGE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ACTIVATED SLUDGE; BIOLOGY; *BACTERIA; *INSTRUCTIONAL MATERIALS; *INDICATOR ORGANISMS; *MICROBIOLOGY; *OPERATIONS (WASTEWATER); *SEWAGE; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, BLACK AND WHITE, 15 MINUTES

ABSTRACT: THIS CASSETTE IS AN OVERVIEW OF TYPICAL ACTIVATED SLUDGE MICROORGANISMS. THE VIEWER SHOULD GAIN FAMILIARITY WITH THE TYPES AND VARIETY OF TYPICAL FORMS OF THE ACTIVATED SLUDGE PROCESS AND INDICATOR ORGANISMS. THIS PRESENTATION IS SUITABLE FOR USE IN BACTERIOLOGICAL ANALYSIS OF DRINKING WATER.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005991
PUBLICATION DATE: 73

TITLE: BIOASSAY PROCEDURE.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *BIOASSAYS; BIOLOGY; *EFFLUENTS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; MANAGEMENT; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, 16MM (MP-11), COLOR, 25 MINUTES

ABSTRACT: THIS UNIT CONSISTS OF A DETAILED DEMONSTRATION OF A FULL SCALE (96 HOW) STATIC BIOASSAY TEST. DR. HERBERT JACKSON, FORMER UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AQUATIC BIOLOGIST, USES WASTEWATER FROM INDUSTRIES FOR SAMPLES AND USES MINNOWS AS TEST ANIMALS. HE THEN DISCUSSES THE RESULTS AND HOW TO INTERPRET THE RESULTS TO BE USED IN DETERMINING MANAGEMENT POLICY FOR A PARTICULAR EFFLUENT.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005992

PUBLICATION DATE: 76

TITLE: DETERMINATION OF OIL AND GREASE: BASIC SKILLS, SEPARATORY FUNNEL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *EFFLUENTS; *GREASE; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MONITORING; *OIL; *WATER QUALITY

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, COLOR; PART I-17 MINUTES, PART II -13 MINUTES

ABSTRACT: PART I OF THIS PROGRAM DEMONSTRATES ENTRY LEVEL SKILLS NEEDED FOR USE WITH THE EFFLUENT MONITORING PROCEDURE. THE SKILLS ARE: (1) USE OF PH SENSITIVE PAPER, (2) USE OF PARTIAL AND TOTAL IMMERSION THERMOMETERS, (3) FOLDING AND PLACING FILTER PAPER IN A 60 DEGREE FUNNEL. PART II OF THIS VIDEOCASSETTE DEMONSTRATES THE USE OF A SEPARATORY FUNNEL TO EXTRACT A WATER SAMPLE WITH FREON.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005993

PUBLICATION DATE: 76

TITLE: DETERMINATION OF OIL AND GREASE: DISTILLATION SET UP.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; EFFLUENTS; *GREASE; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MONITORING; *OIL; *WATER QUALITY

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, COLOR, 15 MIUTES

ABSTRACT: THIS 15 MINUTE CASSETTE WAS PREPARED SPECIFICALLY FOR THE EFFLUENT MONITORING PROCEDURE AND PROVIDES INSTRUCTIONS FOR THE REMOVAL OF THE FREON SOLVENT. THE METHOD ADVOCATED IS DISTILLATION. THIS VIDEOCASSETTE DEMONSTRATES THE ASSEMBLY OF A DISTILLATION APPARATUS. SEVERAL DISTILLATION "HEADS" ARE SHOWN.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005994

PUBLICATION DATE: 76

TITLE: USE OF A SPECTROPHOTOMETER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *MEASUREMENT; *SPECTROPHOTOMETERS; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, COLOR, 21 MINUTES

ABSTRACT: THIS CASSETTE IS INTENDED FOR BEGINNING LABORATORY PERSONNEL OR WASTEWATER TREATMENT PLANT OPERATORS. THE FILM SHOWS THE STEPWISE USE OF THE SPECTROPHOTOMETER INCLUDING WARM-UP PROCEDURES, THE ADJUSTMENTS PRIOR TO USE, HOW TO MAKE MEASUREMENTS AND HOW TO CHANGE THE PHOTO TUBE.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005995

PUBLICATION DATE: 75

TITLE: THE PREPARATION OF CADMIUM REDUCTION COLUMN.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *CADMIUM REDUCTION COLUMN; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MONITORING; *NITROGEN; *NITRATES; *NITRITES; *WATER QUALITY

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, VIDEOCASSETTE, COLOR, 21 MINUTES

ABSTRACT: THIS TAPE IS DESIGNED AS A LABORATORY BRIEFING FOR ONE OF THE LABORATORY PROCEDURES IN THE EFFLUENT MONITORING PROCEDURE, "DETERMINATION OF NITRATE-NITRITE NITROGEN AND OF NITRATE NITROGEN, CADMIUM REDUCTION METHOD". THE AUTHOR DEMONSTRATES CUTTING A PIPETTE AND ASSEMBLING THE GLASS COLUMN, PREPARING COPPERIZED CADMIUM, FILLING THE COLUMN WITH THE COPPER-CADIUM AND ADJUSTING THE FLOW RATE

FOR THE REDUCTION PROCESS.
AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005996

PUBLICATION DATE: 73

TITLE: MPN PROCEDURES - EQUIPMENT 8 SUPPLIES, TEST AND TESTING.

DESCRIPTOR: *ANALYTICAL TECHNIQUIES; AUDIOVISUAL AIDS; *BACTERIA; EQUIPMENT; *FECAL COLIFORM TESTS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MULITPLE DILUTION TUBE; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ON LOAN FROM NTOTC FREE OF CHARGE, 2 VIDEOCASSETTES, COLOR, 60 MINUTES EACH

ABSTRACT: THESE CASSETTES WERE PREPARED FOR USE IN TRAINING OF WASTEWATER TREATMENT OPERATIONAL PERSONNEL IN TOTAL AND FECAL COLIFORM TESTS BY THE MULTIPLE DILUTION TUBE (MPN) IN TREATMENT PLANT EFFLUENT SAMPLES. THESE UNITS MAKE THE FULLEST POSSIBLE USE OF ACTUAL LABORATORY SUPPLIES AND EQUIPMENT IN ALL DEMONSTRATIONS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW005997

PUBLICATION DATE: MAY 79

TITLE: RADIONUCLIDE REMOVAL FROM WATER.

PERSONAL AUTHOR: KOSAREK, LOUIS J.

DESCRIPTOR: *RADIATION; *PUBLIC HEALTH; *WATER POLLUTION CONTROL; ENVIRONMENTAL INFLUENCES; CHEMICAL REACTIONS; *TECHNOLOGY; EQUIPMENT; FEDERAL LEGISLATION; *WATER TREATMENT; WATER SUPPLY; *RADIONUCLIDES

DESCRIPTIVE NOTE: 522-525P.

ABSTRACT: THIS ARTICLE DISCUSSES A VARIETY OF OPERATING PROCEDURES WHICH MAY BE USED TO REMOVE RADIONUCLIDES FROM WATER SUPPLIES. METHODS PRESENTED INCLUDE: (1) MEMBRANE EXTRACTION; (2) PRECIPITATION, AERATION; (3) ION EXCHANGE; AND (4) SAND FILTRATION.

AVAILABILITY: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; V13 N5

IRIS ACCESSION NUMBER: EW005998

PUBLICATION DATE: MAY 79

TITLE: PRIORITY POLLUTANTS. II-COST EFFECTIVE ANALYSIS.

PERSONAL AUTHOR: FINNIGAN, ROBERT E., AND OTHERS
DESCRIPTOR: POLLUTION; *WATER POLLUTION CONTROL; *GAS CHROMATOGRAPHY; TECHNOLOGY; *LABORATORY TECHNIQUES; *COST EFFECTIVENESS; *CHEMISTRY; *EQUIPMENT; *MASS SPECTROMETERS; *INSTRUMENTATION

DESCRIPTIVE NOTE: 534-541P.

ABSTRACT: INVESTIGATED IS THE USEFULNESS OF THE GAS CHROMATOGRAPH/MASS SPECTROMETER IN THE DETECTION, IDENTIFICATION, AND QUANTITATION OF POLLUTANTS IN EFFLUENTS. EQUIPMENT PURCHASE, OPERATION COSTS, AND LEGAL ACCEPTANCE ARE ALSO DISCUSSED.

AVAILABILITY: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; V13 N5

IRIS ACCESSION NUMBER: EW005999

PUBLICATION DATE: 81

TITLE: INDUSTRIAL PNEUMATIC SYSTEMS - NOISE CONTROL AND ENERGY CONSERVATION.

PERSONAL AUTHOR: OVIATT, MARK D.; MILLER, RICHARD K.

DESCRIPTOR: AIR TOOLS; COMPRESSORS; *DESIGN; *ENERGY CONSERVATION; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *NOISE CONTROL; *PNEUMATICS; STANDARDS; TEXTBOOKS

DESCRIPTIVE NOTE: 212P. PRICE: $27.95
ABSTRACT: THIS TEXT EXAMINES VARIOUS ASPECTS OF INDUSTRIAL PNEUMATIC SYSTEMS WITH EMPHASIS ON NEW DESIGNS. CHAPTERS INCLUDE: NEW DESIGN CHALLENGES; GETTING BACK TO BASICS; COMPRESSORS; INTAKE AND DISTRIBUTION, PNEUMATIC TOOLS AND DEVICES; PNEUMATIC MUFFLER DESIGN; AND MAINTENANCE FOR ENERGY CONSERVATION AND NOISE CONTROL. THE APPENDICES CONTAIN USEPA AIR COMPRESSOR NOISE EMISSION STANDARDS AND EXCERPTS FROM NIOSH.

AVAILABILITY: AEE ENERGY BOOKS, DEPT. 803, 4025 PLEASANTDALE ROAD., SUITE 340, ATLANTA, GA 30340

IRIS ACCESSION NUMBER: EW006000

PUBLICATION DATE: 80

TITLE: HYDROCARBONS AND HALOGENATED HYDROCARBONS IN THE AQUATIC ENVIRONMENT.

PERSONAL AUTHOR: AFGHAN, B. K.; MACKAY, D.

DESCRIPTOR: *AQUATIC ENVIRONMENT; *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; *ENVIRONMENTAL EFFECTS; *HYDROCARBONS; *HALOGENATED HYDROCARBONS; *LABORATORY PROCEDURES; *MONITORING; *PUBLIC HEALTH; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 588P. PRICE: $59.50

ABSTRACT: THE PURPOSE OF THIS VOLUME IS TO BRING TOGETHER INFORMATION ON THE ANALYSES, BEHAVIOR AND EFFECTS OF HYDROCARBONS AND HALOGENATED HYDROCARBONS ON THE AQUATIC ENVIRONMENT. THE PAPERS IN THIS VOLUME ARE DIVIDED INTO THE FOLLOWING CATEGORIES: (1) PAPERS DESCRIBING QUANTITATIVE ANALYTICAL RESULTS; (2) PAPERS ON ANALYTICAL METHODS; (3) PAPERS ON INCIDENCE, MONITORING AND PATHWAYS; AND (4) PAPERS ON DRINKING WATER, HEALTH AND BIOLOGICAL EFFECTS.

AVAILABILITY: PLENUM PUBLISHING CORPORATION, 227 WEST 17 STREET, NEW YORK, NY 10011

IRIS ACCESSION NUMBER: EW006001

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL POLLUTION ANALYSIS.

PERSONAL AUTHOR: GOULDEN, P. D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; HEAVY METALS; INORGANIC COMPOUNDS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MONITORING; ORGANIC COMPOUNDS; *POLLUTANTS; POLLUTION CONTROL; RADIONUCLIDES; *SAMPLING; *TESTING

DESCRIPTIVE NOTE: 209P. PRICE: $16.50

ABSTRACT: THIS MONOGRAPH HAS BEEN WRITTEN WITH THE INTENTION OF PROVIDING A MEANS WHERE-BY NON-ANALYTICAL SPECIALISTS MAY BECOME MORE FAMILIAR WITH HOW ENVIRONMENTAL SAMPLES ARE COLLECTED AND ANALYZED AND AT WHAT LEVELS PARTICULAR POLLUTANTS MAY BE DETERMINED. CHAPTERS INCLUDE: SAMPLING METHODS; THE DETERMINATION OF METALS; CLASSIFICATION OF METAL COMPOUND SPECIES; ANALYSIS OF INORGANIC MATERIALS; RADIONUCLIDES; THE DETERMINATION AND IDENTIFICATION OF ORGANIC MATERIALS; MICROORGANISMS; AND CONTINUOUS MONITORING.

AVAILABILITY: HEYDEN & SON, INC., 247 SOUTH 41ST STREET, PHILADELPHIA, PA 19104

IRIS ACCESSION NUMBER: EW006002

PUBLICATION DATE: 80

TITLE: TOXIC METALS AND THEIR ANALYSIS.

PERSONAL AUTHOR: BERMAN, ELEANOR

DESCRIPTOR: *ANALYTICAL TECHNIQUES; ATOMIC ABSORPTION SPECTROMETRY; BIOCHEMISTRY; *CHEMICAL ANALYSIS; CHROMATOGRAPHY; COLORIMETRY; FLUORIMETRY; *LABORATORY PROCEDURES; POLAROGRAPHY; SPECTROSCOPY; TOXICOLOGY; *TOXIC METALS; *TRACE METALS

DESCRIPTIVE NOTE: 293P. PRICE: $27.00

ABSTRACT: THE GENERAL HISTORY OF TRACE METALS AND THEIR METHODS OF ANALYSIS ARE DISCUSSED IN DETAIL. THE 31 CHAPTERS

DEAL WITH THE INDIVIDUAL METALS AND METALLOIDS, FROM ALUMINUM TO ZIRCONIUM TO WHICH TOXIC PROPERTIES HAVE BEEN ASCRIBED. THE AUTHOR DISCUSSES THE BIOCHEMICAL ROLE OF EACH ELEMENT, ITS TOXICOLOGY, ITS DISTRIBUTION IN THE BODY, ITS NORMAL CONCENTRATION IN THE DIET AND IN THE BODY, AND FINALLY THE METHODS AVAILABLE FOR ITS ANALYSIS. THOSE DISCUSSED INCLUDE COLORIMETRY, FLUORIMETRY, CHROMATOGRAPHY, POLAROGRAPHY AND SPECTROSCOPY.

AVAILABILITY: HEYDEN & SON, IN., 247 SOUTH 41ST STREET, PHILADELPHIA, PA 19104

IRIS ACCESSION NUMBER: EW006003

PUBLICATION DATE: 80

TITLE: SENSORY ASSESSMENT OF WATER QUALITY.

PERSONAL AUTHOR: ZOETEMAN, B. C. J.

DESCRIPTOR: CASE STUDIES; *CHEMICAL ANALYSIS; *DRINKING WATER; INORGANIC COMPOUNDS; *INSTRUCTIONAL MATERIALS; NETHERLANDS; *ODOR; ORGANIC COMPOUNDS; *PUBLIC HEALTH; POST SECONDARY EDUCATION; RESEARCH REPORTS; *SENSORY ASSESSMENT; *TASTE; TEXTBOOKS; *WATER QUALITY

DESCRIPTIVE NOTE: 148P. PRICE: $28.00

ABSTRACT: THIS TEXT CONTAINS AN EXPLORATION OF THE POSSIBILITIES AND LIMITATIONS OF SENSORY WATER QUALITY ASSESSMENT AS A RAPID OVERALL INDICATION OF THE QUALITY OF WATER AND OF POTENTIAL EFFECTS ON THE HEALTH OF CONSUMERS. CHAPTERS INCLUDE: SENSORY ASSESSMENT OF DRINKING WATER QUALITY BY THE POPULATION OF THE NETHERLANDS; SENSORY ASSESSMENT OF 20 TYPES OF DRINKING WATER BY A SELECTED PANEL; DRINKING WATER TASTE AND INORGANIC CONSTITUENTS; DRINKING WATER TASTE AND ORGANIC CONSTITUENTS; SENSORY ASSESSMENT OF DRINKING WATER QUALITY AND HEALTH PROTECTION ASPECTS; AND FURTHER STUDY AND APPLICATION OF WATER QUALITY ASSESSMENT.

AVAILABILITY: PERGAMON PRESS, INC., MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523

IRIS ACCESSION NUMBER: EW006004

PUBLICATION DATE: 80

TITLE: ANALYZING SAFETY PERFORMANCE.

PERSONAL AUTHOR: PETERSON, DAN

DESCRIPTOR: *ANALYSIS; *EVALUATION; *INSTRUCTIONAL MATERIALS; MANAGEMENT; SAFETY ENGINEERS; *SAFETY; *SAFETY MANAGEMENT

DESCRIPTIVE NOTE: 328P. PRICE: $24.50

ABSTRACT: THE FUNCTIONS OF THE SAFETY PROFESSIONAL ARE FOURFOLD: (1) TO ANALYZE, (2) TO DEVELOP PLANS, (3) TO

COMMUNICATE THOSE PLANS TO THE LINE AND (4) TO MONITOR. THIS VOLUME FOCUSES ON THE FIRST FUNCTION, TO ANALYZE, AND THE AUTHOR DESCRIBES THREE MAIN AREAS OF ANALYSIS: (1) THE PHYSICAL, (2) THE MANAGERIAL, AND (3) THE BEHAVIORAL.

AVAILABILITY: GARLAND PUBLISHING, INC., 136 MADISON AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW006005

PUBLICATION DATE: DEC 79

TITLE: ENVIRONMENTAL QUALITY-THE TENTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY.

DESCRIPTOR: AIR POLLUTION; ECONOMIC FACTORS; ENERGY; *ENVIRONMENTAL QUALITY; *EVALUATION; HAZARDOUS WASTES; LAND USE; *NATURAL RESOURCES; NOISE; *POLLUTION; *RESEARCH REPORTS; SOLID WASTES; TOXIC SUBSTANCES; *WATER QUALITY

DESCRIPTIVE NOTE: 816P.

ABSTRACT: THIS PUBLICATION EXAMINES IN DETAIL THE QUALITY OF THE U. S. ENVIRONMENT FOR THE YEAR 1979. INCLUDED IN THIS EXAMINATION ARE SECTIONS ON: AIR QUALITY; WATER QUALITY; TOXIC SUBSTANCES, AND ENVIRONMENTAL HEALTH; MUNICIPAL SOLID WASTE; ENERGY; NATURAL RESOURCES; ECOLOGY AND LIVING RESOURCES: COASTAL ECOLOGY AND SHELLFISH; HUMAN SETTLEMENTS AND LAND USE; NOISE; NATIONAL ENVIRONMENTAL POLICY ACT; THE GLOBAL ENVIRONMENT; AND ECONOMICS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006006

PUBLICATION DATE: JUL 80

TITLE: HAZARDOUS MATERIALS - 1980 EMERGENCY RESPONSE GUIDEBOOK.

DESCRIPTOR: *ACCIDENTS; *ACCIDENT PREVENTION; *CHEMICALS; *EMERGENCIES; *HAZARDOUS MATERIALS; PUBLIC HEALTH; *SAFETY; STORAGE; *TRANSPORTATION

DESCRIPTIVE NOTE: 125P. FREE OF CHARGE

ABSTRACT: THIS GUIDEBOOK WAS DEVELOPED FOR USE BY FIREFIGHTERS, POLICE AND OTHER EMERGENCY SERVICES AS A GUIDE FOR INITIAL ACTIONS TO BE TAKEN TO PROTECT THEMSELVES AND THE PUBLIC WHEN THEY ARE CALLED TO HANDLE INCIDENTS INVOLVING HAZARDOUS MATERIALS. THIS DOCUMENT WAS PRIMARILY DESIGNED FOR USE AT A HAZARDOUS MATERIALS INCIDENT OCCURRING ON A HIGHWAY OR A RAILROAD, BUT IT IS ALSO OF USE IN HANDLING INCIDENTS IN OTHER MODES OF TRANSPORTATION AND AT FACILITIES SUCH AS TERMINALS AND WAREHOUSES.

AVAILABILITY: MATERIALS TRANSPORTATION BUREAU, RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, WASHINGTON, DC 20590

IRIS ACCESSION NUMBER: EW006007

PUBLICATION DATE: 75

TITLE: TRAIN THE TRAINER SERIES: BOOK 5, HANDLING YOUR TRAINEE'S PROBLEMS.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANPOWER DEVELOPMENT; *MOTIVATION; OBJECTIVES; *PROGRAMED INSTRUCTION; POST SECONDARY EDUCATION; *TEACHING GUIDES

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF PROGRAMED LEARNING MATERIALS DESIGNED TO ASSIST THE TRAINING COORDINATOR DEVELOP AND DELIVER AN EFFECTIVE PROGRAM. THIS VOLUME CONCENTRATES ON THE METHODS AND TECHNIQUES IN CULTIVATING TRAINER MOTIVATION. EACH VOLUME CONTAINS A PRETEST AND A POSTTEST WITH CORRESPOUNDING ANSWER SHEETS FOR SELF-STUDY.

AVAILABILITY: NATIONAL PEST CONTROL ASSOC., TYSONS INTERNATIONAL BLDG., 8150 LEESBURG PIKE, VIENNA, VA 22180

IRIS ACCESSION NUMBER: EW006008

PUBLICATION DATE: 75

TITLE: TRAIN THE TRAINER SERIES: BOOK 4, ON THE JOB TRAINING.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANPOWER DEVELOPMENT; OBJECTIVES; POST SECONDARY EDUCATION; *PROGRAMED INSTRUCTION; *TEACHING GUIDES

DESCRIPTIVE NOTE: 29P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF PROGRAMED LEARNING MATERIALS DESIGNED TO ASSIST THE TRAINING COORDINATOR DEVELOP AND DELIVER AN EFFECTIVE PROGRAM. THIS VOLUME DISCUSSES ON-THE-JOB TRAINING INCLUDING WHAT PLANNING MUST PRECEDE THE EXPERIENCE AND WHAT TRAINING TECHNIQUES CAN BE APPLIED TO THIS TYPE OF TRAINING. EACH VOLUME CONTAINS A PRETEST AND A POST TEST WITH CORRESPONDING ANSWER SHEETS FOR SELF-STUDY.

AVAILABILITY: NATIONAL PEST CONTROL ASSOC., TYSONS INTERNATIONAL BLDG., 8150 LEESBURG PIKE, VIENNA VA 22180

IRIS ACCESSION NUMBER: EW006009

PUBLICATION DATE: 75

TITLE: TRAIN THE TRAINER SERIES: BOOK 3, TRAINING MEDIA, TRAINING AIDS, AND REFERENCE AIDS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANPOWER DEVELOPMENT; OBJECTIVES; POST SECONDARY EDUCATION; *PROGRAMED INSTRUCTION; *TEACHING

GUIDES

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF PROGRAMED LEARNING MATERIALS DESIGNED TO ASSIST THE TRAINING COORDINATOR DEVELOP AND DELIVER AN EFFECTIVE PROGRAM. DISCUSSED ARE: (1) TYPES OF MATERIALS AVAILABLE; (2) THE MEDIA USED FOR THESE MATERIALS; AND (3) HOW THESE MATERIALS SHOULD BE USED. EACH VOLUME CONTAINS A PRETEST AND A POST TEST WITH CORRESPONDING ANSWER SHEETS FOR SELF-STUDY.

AVAILABILITY: NATIONAL PEST CONTROL ASSOC., TYSONS INTERNATIONAL BLDG., 8150 LEESBURG PIKE, VIENNA VA 22180

IRIS ACCESSION NUMBER: EW006010

PUBLICATION DATE: 75

TITLE: TRAIN THE TRAINER SERIES: BOOK 2, PROGRAMMED INSTRUCTION.

DESCRIPTOR: AUDIOVISUAL AIDS; INSTRUCTION; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANPOWER DEVELOPMENT; OBJECTIVES; POST SECONDARY EDUCATION; *PROGRAMED INSTRUCTION; *TEACHING GUIDES

DESCRIPTIVE NOTE: 28P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF PROGRAMED LEARNING MATERIALS DESIGNED TO ASSIST THE TRAINING COORDINATOR DEVELOP AND DELIVER AN EFFECTIVE PROGRAM. THIS VOLUME SHOWS: (1) HOW PROGRAMED INSTRUCTION IS DESIGNED, (2) HOW PROGRAMED INSTRUCTION BOOKS ARE USED, AND (3) HOW THE TRAINING COORDINATOR CAN HELP IN THE DEVELOPMENT OF FUTURE PROGRAMS. EACH VOLUME CONTAINS A PRETEST AND A POST TEST WITH CORRESPONDING ANSWER SHEETS FOR SELF-STUDY.

AVAILABILITY: NATIONAL PEST CONTROL ASSOC., TYSONS INTERNATIONAL BLDG., 8150 LEESBURG PIKE, VIENNA VA 22180

IRIS ACCESSION NUMBER: EW006011

PUBLICATION DATE: 75

TITLE: TRAIN THE TRAINER SERIES: BOOK 1. INSTRUCTIONAL METHODS.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANPOWER DEVELOPMENT; OBJECTIVES; *PROGRAMED INSTRUCTION; POST SECONDARY EDUCATION; *TEACHING GUIDES

DESCRIPTIVE NOTE: 35P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF PROGRAMED LEARNING MATERIALS DESIGNED TO ASSIST THE TRAINING COORDINATOR DEVELOP AND DELIVER AN EFFECTIVE PROGRAM. PRESENTED IN THIS VOLUME ARE A VARIETY OF GROUP TRAINING METHODS USED IN THE CLASSROOM AND INDIVIDUALIZED TRAINING METHODS USED OUTSIDE THE CLASSROOM. THE TEXT DISCUSSES THE RATIONALE FOR USING THESE TRAINING TECHNIQUES AND SOME OF THE ADVANTAGES AND LIMITATIONS OF EACH. EACH VOLUME CONTAINS A PRETEST AND A POST TEST WITH CORRESPONDING ANSWER SHEETS FOR SELF-STUDY.

AVAILABILITY: NATIONAL PEST CONTROL ASSOC., TYSONS INTERNATIONAL BLDG., 8150 LEESBURG PIKE, VIENNA VA 22180

IRIS ACCESSION NUMBER: EW006012

PUBLICATION DATE: 77

TITLE: ORIGINS OF PEST, PARASITE, DISEASE AND WEED PROBLEMS.

PERSONAL AUTHOR: CHERRETT, J. M.; SAGAR, G. R.

DESCRIPTOR: *DISEASES; *ECOLOGY; ECONOMICS; PATHOGENS; *PARASITES; *PESTS; *PESTICIDES; PLANT DISEASES; RESOURCES MATERIALS; SYMPOSIA; *WEEDS; *PEST CONTROL

DESCRIPTIVE NOTE: PRICE: $35.00

ABSTRACT: THIS SYMPOSIUM EXAMINES THE WAYS THAT PEST, PARASITE, DISEASE, AND WEED PROBLEMS HAVE ORIGINATED AND EXPLORES WAYS IN WHICH FUTURE PROBLEMS MIGHT ARISE. SOME OF THE TOPICS PRESENTED ARE: THE RELEVANCE OF POPULATION DYNAMICS THEORY TO PEST STATUS, THE EVOLUTION OF INJURIOUS ORGANISMS AND THEIR BIOGEOGRAPHY MONOCULTURE (INCLUDING MONOCULTURE OF FORESTRY, MARINE FISHERIES, AND TEMPERATE CEREALS), THE INTERDEPENDENCE OF ECOLOGY AND ECONOMICS, AND PREDICTING FUTURE PROBLEMS.

AVAILABILITY: JOHN WILEY 8 SONS, DEPT. 6043, ONE WILEY DR., SOMERSET NJ 08873

IRIS ACCESSION NUMBER: EW006013

PUBLICATION DATE: 78

TITLE: MATHEMATICS FOR WATER SUPPLY OPERATORS.

PERSONAL AUTHOR: BURKE, MICHAEL E.; POWERS, WILLIAM T.

DESCRIPTOR: *JOB SKILLS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; *POSTSECONDARY EDUCATION; TECHNICAL MATHEMATICS; *UTILITIES; *OPERATIONS (WATER); WATER TREATMENT; *WATER TREATMENT OPERATORS

DESCRIPTIVE NOTE: 177P.

ABSTRACT: THE PURPOSE OF THIS TEXT IS TO IMPROVE THE MATHEMATICS PERFORMANCE OF WATER TREATMENT OPERATORS. THE TEXT IS DIVIDED INTO TWO SECTIONS. THE FIRST SECTION INVOLVES FUNDAMENTAL MATHEMATICS; THE SECOND INVOLVES THE PROCESS CALCULATIONS AT A PLANT.

AVAILABILITY: HEALTH EDUCATION SERVICE, INC., P. O. BOX 7126B ALBANY, NY 12224

IRIS ACCESSION NUMBER: EW006014
PUBLICATION DATE: JAN 81

TITLE: TRACE ORGANICS IN GROUNDWATER.

PERSONAL AUTHOR: MCCARTY, PERRY L.; AND OTHERS

DESCRIPTOR: BIODEGRADATION; DRINKING WATER; *GROUNDWATER; *MATHEMATICAL MODELING; MONITORING; *ORGANIC POLLUTANTS; POLLUTANTS; *RESEARCH NEEDS; *RESEARCH REVIEWS; WATER POLLUTION

DESCRIPTIVE NOTE: 40-51P.

ABSTRACT: ADDRESSES QUESTIONS ON THE BEHAVIOR OF ORGANIC POLLUTANTS IN GROUNDWATER. PROCESSES AFFECTING THEIR MOVEMENT AND FATE IN THE SUBSURFACE ENVIRONMENT, AND RESEARCH NEEDS IN THIS FIELD ARE ALSO DISCUSSED.

AVAILABILITY: ENVIRONMENTAL SCIENCE AND TECHNOLOGY, V15 N1

IRIS ACCESSION NUMBER: EW006015

PUBLICATION DATE: JAN 81

TITLE: SOCIAL ASSESSMENT INDICATORS IN WATER RESOURCES DEVELOPMENT.

PERSONAL AUTHOR: ANDREWS, WADE H.; AND OTHERS

DESCRIPTOR: *REGIONAL PLANNING; RESEARCH REPORTS; QUALITY OF LIFE; SOCIAL ENVIRONMENT; *SOCIAL IMPACT ASSESSMENT; *SOCIAL INDICATORS; SOCIAL SCIENCE RESEARCH; SOCIOLOGY; *STATE OF THE ART REVIEWS; *WATER RESOURCES

DESCRIPTIVE NOTE: 64-82P.

ABSTRACT: IDENTIFIES SEVEN ISSUES AND PROBLEMS RELATING TO SOCIAL IMPACT ASSESSMENT FOR WATER RESOURCES DEVELOPMENT THAT HAVE CONTRIBUTED TO THE PROLIFERATION OF APPROACHES TO DETERMINING SOCIAL WELL-BEING. PRIORITIES FOR FURTHER RESEARCH ARE SUGGESTED.

AVAILABILITY: ENVIRONMENT AND BEHAVIOR, V13 N1

IRIS ACCESSION NUMBER: EW006016

PUBLICATION DATE: JAN 81

TITLE: COMMUNITY CONCERN FOR POLLUTION SOCIAL AND ENVIRONMENTAL INFLUENCES.

PERSONAL AUTHOR: CUTTER, SUSAN CARIS

DESCRIPTOR: *COMMUNITY ATTITUDES; *COMMUNITY PROBLEMS; *ENVIRONMENTAL INFLUENCES; *POLLUTION; QUALITY OF LIFE; RESEARCH REPORTS; SOCIAL ATTITUDES; *SOCIAL INFLUENCES; SOCIAL PROBLEMS; SOCIAL SCIENCE RESEARCH

DESCRIPTIVE NOTE: 105-124P.
ABSTRACT: REPORTS A SURVEY OF CHICAGO RESIDENTS CONDUCTED TO ASSESS PREDICTORS OF COMMUNITY CONCERN FOR POLLUTION. FINDINGS INDICATED THAT SOCIAL CHARACTERISTICS AND ENVIRONMENTAL QUALITY EQUALLY AFFECT POLLUTION RELATED ATTITUDES. LOW STATUS COMMUNITIES EXHIBITED GREATER CONCERN THAN THEIR HIGH STATUS COUNTERPARTS.

AVAILABILITY: ENVIRONMENT AND BEHAVIOR, V13 N1

IRIS ACCESSION NUMBER: EW006017

PUBLICATION DATE: 81

TITLE: ENVIRONMENTAL HEALTH CHEMISTRY.

PERSONAL AUTHOR: MCKINNEY, JAMES D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOMECHANISMS; *CHEMISTRY; *CHEMICAL CONTAMINATION; *ENVIRONMENTAL HEALTH; ENVIRONMENTAL ANALYSIS; *HEALTH HAZARDS; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEEDURES; MONITORING; *ORGANIC CHEMISTRY; *PUBLIC HEALTH; *POST SECONDARY EDUCATION;RESEARCH; *TEXTBOOKS; *TOXICOLOGY; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 656P. PRICE: $47.50

ABSTRACT: THIS BOOK IS INTENDED AS AN INTRODUCTION TO ENVIRONMENTAL HEALTH CHEMISTRY AND TO THE ROLE OF THE CHEMIST IN ENVIRONMENTAL HEALTH RESEARCH. THE MORE IMPORTANT, INTERACTIVE AND UNIFYING CHEMICAL ASPECTS OF SOLVING THE POTENTIAL HEALTH PROBLEMS ASSOCIATED WITH EXPOSURE TO ENVIRONMENTAL CHEMICALS ARE PRESENTED. THESE ASPECTS INCLUDE THE IDENTIFICATION OF PROBLEMS AND METHODS IN ENVIRONMENTAL ANALYSIS, BIOMECHANISMS ELUCIDATION AND TOXICITY PREDICTION, AND TOXICOLOGICAL TESTING ASPECTS OF THE PROBLEM.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTHS PROFESSIONAL AND EDUCATIONAL PUBLISHERS,10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW006018

PUBLICATION DATE: 80

TITLE: DESIGN & MANAGEMENT FOR RESOURCE RECOVERY, VOLUME 3: QUANTITATIVE DECISION-MAKING.

PERSONAL AUTHOR: KLEE, ALBERT J.

DESCRIPTOR: *DECISION MAKING; DESIGN; *EVALUATION CRITERIA; FORECASTING; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; *QUANTITATIVE ANALYSIS; *RESOURCE RECOVERY; *RECYCLING; SAMPLING; STATISTICS; WASTE DISPOSAL; *WASTES

DESCRIPTIVE NOTE: 150P. PRICE: $39.00

ABSTRACT: THIS BOOK EXAMINES A WIDE VARIETY OF INNOVATIVE APPROACHES TO SOME DIFFICULT RESOURCE RECOVERY DECISION PROBLEMS. A PRAGMATIC, APPLIED APPROACH TO THE MATERIAL IS TAKEN, USING MANY NUMERICAL EXAMPLES TO ILLUSTRATE THE SUGGESTED TECHNIQUES. DETAILED ANALYSES INCLUDE SECTIONS ON: ESTIMATION OF RAW REFUSE QUANTITY; ESTIMATION OF WASTE COMPOSITION; UNCERTAINTY ANALYSIS, DECISION TREES, AND MULTIATRIBUTE DECISION-MAKING; THE UTILIZATION OF EXPERT JUDGEMENT; AND FORECASTING.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTHS PROFESSIONAL AND EDUCATIONAL PUBLISHERS, 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW006019

PUBLICATION DATE: 81

TITLE: SOLAR HEATING AND COOLING OF BUILDINGS.

PERSONAL AUTHOR: GREELEY, RICHARD S.; AND OTHERS

DESCRIPTOR: BUILDINGS; CASE STUDIES; *COOLING; COST EFFECTIVENESS; *DESIGN; *ECONOMIC FACTORS; *ENERGY; *EQUIPMENT; *HEATING; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SOLAR ENERGY

DESCRIPTIVE NOTE: 502P. PRICE: $47.50

ABSTRACT: THIS BOOK IS INTENDED TO DISPEL SOME OF THE UNCERTAINTIES, TO CLARIFY OTHERS, TO PRESENT ADVANTAGES AND DISADVANTAGES CANDIDLY AND OBJECTIVELY AND TO SHOW HOW TO TAKE ADVANTAGE OF FEDERAL, STATE, LOCAL AND PRIVATE INCENTIVE PROGRAMS FOR SOLAR ENERGY. THIS BOOK WILL HELP THE INTERESTED LAYPERSON, AS WELL AS THE BUDDING PROFESSIONAL OR TECHNICAL SPECIALIST, TURN A VAGUE FEELING THAT THE TIME HAS COME FOR "SOLAR" INTO THE KNOWLEDGE OF HOW TO INSTALL AND OPERATE A COMFORTABLE, ECONOMIC SOLAR SYSTEM. FOR THE PRACTICING OR WOULD-BE SOLAR ENERGY ENGINEER, THIS BOOK CONTAINS, IN ADDITON TO PRACTICAL DETAILS ON SOLAR ENERGY SYSTEMS AND INSTALLATIONS, A WEALTH OF DATA ON THE U. S. SOLAR HEATING AND COOLING OF BUILDINGS PROGRAM, OPTIMIZATION MODELS AND OTHER CURRENT MATERIAL.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., C/O BUTTERWORTHS PROFESSIONAL AND EDUCATIONAL PUBLISHERS, 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW006020

PUBLICATION DATE: 80

TITLE: DRINKING WATER AND CARDIOVASCULAR DISEASE.

PERSONAL AUTHOR: CALABRESE, EDWARD J.; AND OTHERS

DESCRIPTOR: *CARDIOVASCULAR DISEASE; CASE STUDIES; *CONFERENCE REPORTS; *DRINKING WATER; *HEALTH EDUCATION; *HEALTH EFFECTS; HEAVY METALS; *RESEARCH REPORTS; WATER HARDNESS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 322P. PRICE: $37.00

ABSTRACT: THIS BOOK CONTAINS RESEARCH REPORTS AND PANEL DISCUSSIONS FROM A U. S. EPA-SPONSORED CONFERENCE ON DRINKING WATER AND CARDIOVASCULAR DISEASE (CVD). IN ADDRESSING THE HYPOTHESIS THAT DRINKING WATER FACTORS MAY BE ETIOLOGIC AGENTS IN CVD, THE FOLLOWING THREE OBJECTIVES HAVE BEEN ADDRESSED IN THE PAPERS AND DISCUSSIONS: (1) THE INFLUENCE OF SOFT AND HARD WATER ON CVD; (2) THE INFLUENCE OF ELEVATED LEVELS OF SODIUM IN DRINKING WATER ON BLOOD PRESSURE AND CARDIOVASCULAR MORTALITY; AND (3) THE ROLE OF SELECTED HEAVY METALS IN DRINKING WATER ON CVD.

AVAILABILITY: PATHOTOX PUBLISHERS, INC., 2405 BOND STREET, PARK FOREST SOUTH, IL 60466

IRIS ACCESSION NUMBER: EW006021

TITLE: PROCEEDINGS CONFERENCE ON PUBLIC PARTICIPATION WATER RESOURCES PLANNING AND MANAGEMENT.

PERSONAL AUTHOR: STEWART, JAMES M., EDITOR

DESCRIPTOR: *CONFERENCE REPORTS; DECISION MAKING; *MANAGEMENT; *PLANNING; POLICY FORMATION; *PUBLIC PARTICIPATION; PROBLEM SOLVING; RESEARCH NEEDS; *STATE OF THE ART REVIEWS; *WATER RESOURCES

ABSTRACT: THIS PUBLICATION CONTAINS THE PROCEEDINGS OF A CONFERENCE ON PUBLIC PARTICIPATION IN WATER RESOURCES PLANNING AND MANAGEMENT. THE FIRST DAYS PROGRAM CONSISTED OF STATE-OF-THE-ART PAPERS ON IMPORTANT COMPONENTS OF PUBLIC PARTICIPATION FOLLOWED BY AN EXTENSIVE DISCUSSION. THE SECOND DAY OF THE CONFERENCE WAS DEVOTED TO A REEXAMINATION OF THE RESEARCH NEEDS IN PUBLIC PARTICIPATION. PRESENTATIONS INCLUDED: IDENTIFICATION OF PUBLICS IN WATER RESOURCE PLANNING; INFORMATION RESPONSE AND INTERACTION-DIALOG ASPECTS OF PUBLIC PARTICIPATION; ACCOUNTABILITY OF PUBLIC WATER RESOURCE AGENCIES: LEGAL INSTITUTIONS FOR PUBLIC INTERACTION; EDUCATION OF PLANNERS AND MANAGERS FOR EFFECTIVE PUBLIC PARTICIPATION; AND EDUCATION OF PUBLICS FOR PARTICIPATION IN WATER RESOURCE POLICY AND DECISION-MAKING.

AVAILABILITY: THE UNIVERSITY OF NORTH CAROLINA, WATER RESOURCES RESEARCH INSTITUTE, 124 RIDDICK BUILDING, RALEIGH, NC 27607

IRIS ACCESSION NUMBER: EW006022

PUBLICATION DATE: 80

TITLE: CHEMICAL EMERGENCY ACTION MANUAL.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *EMERGENCIES; EMERGENCY SERVICE PERSONNEL; FLAMMABLE CHEMICALS; *HAZARDOUS CHEMICALS; *HEALTH HAZARDS; *MEDICAL TREATMENT; *OCCUPATIONAL HEALTH; *SAFETY

DESCRIPTIVE NOTE: 70P. PRICE: $12.25

ABSTRACT: THIS MANUAL WAS PREPARED TO AID OCCUPATIONAL HEALTH PERSONNEL, EMERGENCY MEDICAL TECHNICIANS, EMERGENCY SERVICE PERSONNEL (FIRE AND POLICE), ANY RESCUE PERSONNEL, AND EMERGENCY ROOM PERSONNEL IN PROTECTING THE RESCUE AND PROVIDING A CONTINUUM OF PREFERRED MEDICAL TREATMENT TO THE VICTIMS OF 35 SELECTED CHEMICALS.

AVAILABILITY: AMERICAN LUNG ASSOCIATION, MS. LINDA HUMMEL, 766 ELLICOTT ST., BUFFALO, NY 14203

INSTITUTION NAME: AMERICAN LUNG ASSOCIATION OF WESTERN NEW YORK, INC.

IRIS ACCESSION NUMBER: EW006023

PUBLICATION DATE: FEB 81

TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.

PERSONAL AUTHOR: SPENCER, GEORGE R., JR.

DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER PESOURCES

DESCRIPTIVE NOTE: 30-33P.

ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

AVAILABILITY: POLLUTION ENGINEERING, V13 N2

IRIS ACCESSION NUMBER: EW006024

PUBLICATION DATE: FEB 81

TITLE: FLUIDIZED BED FINDS NEW APPLICATION IN WASTEWATER TREATING.

PERSONAL AUTHOR: SUTTON, PAUL M.

DESCRIPTOR: *BIOLOGICAL REACTORS; *CASE HISTORIES; *FLUIDIZED BEDS; *INDUSTRIAL WASTEWATER; MUNICIPALITIES; *PILOT PROJECTS; UTILITIES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 38-40P.

ABSTRACT: THIS ARTICLE DESCRIBES A FLUIDIZED BED PROCESS WHICH HAS BEEN DEVELOPED FOR INDUSTRIAL AND MUNICIPAL WASTEWATER TREATMENT. IT IS AN ADAPTATION OF THE FIXED FILM BIOLOGICAL REACTOR. A COMPLETE ANALYSIS OF THE PROCESS AND A DETAILED CASE HISTORY OF A PILOT PROJECT ARE INCLUDED.

AVAILABILITY: POLLUTION ENGINEERING, V13 N2

IRIS ACCESSION NUMBER: EW006033

PUBLICATION DATE: FEB 81

TITLE: DETERMINATION OF CHROMIUM (VI) IN WATER BY LOPHINE CHEMILUMINESCENCE.

PERSONAL AUTHOR: MARINO, D. F.; INGLE, J. D., JR.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMILUMINESCENCE; *CHEMICAL ANALYSIS; CHEMISTRY; *CHROMIUM; EQUIPMENT; *LABORATORY PROCEDURES; RESEARCH; *WATER QUALITY; WATER RESOURCES

DESCRIPTIVE NOTE: 294-298P.

ABSTRACT: DEMONSTRATES THE ANALYTICAL UTILITY OF THE LOPHINE-CR (VI) CHEMILUMINESCENCE (CL) REACTION FOR THE DETERMINATION OF CR(VI) IN NATURAL WATERS. PRESENTS OPTIMIZATION AND CALIBRATION CURVE DATA, AND INTERFERENCE DATA FOR 37 SPECIES COMMONLY FOUND IN NATURAL WATERS. DESCRIBES THE USE OF AN ION EXCHANGE RESIN FOR CL SAMPLE PREPARATION.

AVAILABILITY: ANALYTICAL CHEMISTRY, V53 N2

IRIS ACCESSION NUMBER: EW006034

PUBLICATION DATE: FEB 81

TITLE: DIFFERENTIAL DETERMINATION OF CHROMIUM (VI)-CHROMIUM (III) WITH POLY(DITHIOCARBAMATE) CHELATING RESIN AND INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSON SPECTROMETRY.

PERSONAL AUTHOR: MIYAZAHI, AKIRA; BARNES, RAMON M.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; *CHROMIUM; EQUIPMENT; *LABORATORY PROCEDURES; RESEARCH; SPECTROSCOPY; *WATER QUALITY; WATER RESOURCES

DESCRIPTIVE NOTE: 364-366P.

ABSTRACT: DEMONSTRATES THAT THE POLY(DITHIOCARBAMATE) RESIN IS USEFUL FOR DIFFERENTIAL DETERMINATION OF TRACE AMOUNTS OF CR(VI) AND CR(III) IN CHEMICAL AND ENVIRONMENTAL ANALYSIS. RESULTS ARE DESCRIBED FOR SYNTHETIC SAMPLES BY USING THE CHELATING RESIN TO SEPARATE AND CONCENTRATE THE CHROMIUM SPECIES AND ICP-AES TO DETERMINE THE CHROMIUM CONCENTRATION.

AVAILABILITY: ANALYTICAL CHEMISTRY, V53 N2

IRIS ACCESSION NUMBER: EW006036

TITLE: STANDARD FOR MOTOR OPERATED WATER PUMPS.

DESCRIPTOR: *EQUIPMENT; *MOTORS; *PUMPS; *STANDARDS; *WATER PUMPS; *WATER SUPPLY; WATER TANKS

DESCRIPTIVE NOTE: PRICE: $5.00

ABSTRACT: THESE REQUIREMENTS COVER SUBMERSIBLE AND NON-SUBMERSIBLE MOTOR OPERATED WATER PUMPS INTENDED TO BE EMPLOYED IN ORDINARY LOCATIONS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. THEY ALSO COVER FACTORY-ASSEMBLED WATER-SUPPLY SYSTEMS INCLUDING A PUMP, A TANK, AND A PRESSURE CONTROL. THE REQUIREMENTS DO NOT COVER PUMPS RATED MORE THAN 600 VOLTS OR 15 HORSEPOWER, PUMPS EMPLOYING UNIVERSAL MOTORS RATED MORE THAN 250 VOLTS, PUMPS WITH MOTORS HAVING FRAME DIAMETERS GREATER THAN 11 INCHES, PUMPS USED FOR SWIMMING POOLS OR PUMPS COVERED BY OTHER INDIVIDUAL REQUIREMENTS.

AVAILABILITY: UNDERWRITERS LABORATORIES INC., ATTN: PUBLICATIONS STOCK DEPT., 333 PFINGSTEN ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW006037

TITLE: AWARENESS: THE KEY TO SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; EDUCATIONAL PROGRAMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *SAFETY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 75 SLIDES AND ONE TAPE CASSETTE. PRICE: $80.00 PER SET.

ABSTRACT: THIS AUDIO-VISUAL PROGRAM ADDRESSES THE IMPORTANCE OF SAFETY AWARENESS AS IT RELATES TO A SUPERVISOR AND HIS/HER WORK CREW. THE PRESENTATION WAS DEVELOPED BY THE WPCF'S SAFETY AND COLLECTION SYSTEMS COMMITTEES. THE PROGRAM CONSISTS OF 75 SLIDES AND ONE TAPE CASSETTE ON HOW COLLECTION SYSTEM WORK CREWS CAN BE PREPARED TO AVOID INJURIES IN THEIR DAY-TO-DAY WORKING SCHEDULES.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC 20037

IRIS ACCESSION NUMBER: EW006038

PUBLICATION DATE: FEB 81

TITLE: AQUATIC POLLUTION: AN INTRODUCTORY TEXT.

PERSONAL AUTHOR: LAWS, EDWARD L.

DESCRIPTOR: *AQUATIC ENVIRONMENTS; ECOLOGY; ECONOMIC FACTORS; *INSTRUCTIONAL MATERIALS; POLLUTION CONTROL; *POST SECONDARY EDUCATION; *TEXTBOOKS; *TOXICOLOGY; *WATER POLLUTION

DESCRIPTIVE NOTE: 600P. PRICE: $30.00

ABSTRACT: IN THIS INTRODUCTION TO THE SUBJECT OF WATER POLLUTION, BASIC KNOWLEDGE AND GENERAL ECOLOGICAL PRINCIPLES RELEVANT TO WATER POLLUTION AND TOXICOLOGY ARE REVIEWED. THIS TEXT PRESENTS BOTH THE NEED FOR ECONOMIC GROWTH AND PRESERVATION OF THE ENVIRONMENT.

AVAILABILITY: WILEY-INTERSCIENCE, A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006039

PUBLICATION DATE: APR 81

TITLE: AQUATIC CHEMISTRY: AN INTRODUCTION EMPHASIZING CHEMICAL EQUILIBRIUM IN NATURAL WATERS., 2ND EDITION.

PERSONAL AUTHOR: STUMM, WERNER; MORGAN, JAMES J.

DESCRIPTOR: *AQUATIC ENVIRONMENTS; *CHEMISTRY; *CHEMICAL EQUILIBRIUM; ESTUARIES; GROUNDWATER; *INSTRUCTIONAL MATERIALS; LAKES; OCEANOLOGY; *OCEANS; *POST SECONDARY EDUCATION; RIVERS; WATER TREATMENT

DESCRIPTIVE NOTE: 672P.

ABSTRACT: THIS BOOK INCLUDES THE FORMULATION OF A THEORETICAL BASIS FOR THE CHEMICAL BEHAVIOR OF OCEAN WATERS, ESTUARIES, RIVERS, LAKES, GROUND WATERS, AND SOIL WATER SYSTEMS, AS WELL AS THE DESCRIPTION OF THE PROCESSES INVOLVED IN WATER TREATMENT.

AVAILABILITY: WILEY-INTERSCIENCE A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006040

PUBLICATION DATE: 80

TITLE: AQUAMETRY: A TREATISE ON METHODS FOR THE DETERMINATION OF WATER, 2ND EDITION, PART 3.

PERSONAL AUTHOR: MITCHELL, JOHN, JR.; SMITH, DONALD MILTON

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; MEASUREMENT; *POST SECONDARY EDUCATION; STATE OF THE ART REVIEWS; *WATER ANALYSIS; *WATER MEASUREMENT

DESCRIPTIVE NOTE: 851P. PRICE: $80.00

ABSTRACT: THIS, THE THIRD VOLUME OF THE UPDATED TREATISE ON WATER MEASUREMENT, COMPLETES THE EXAMINATION OF METHODS FOR DETERMINING WATER IN LIQUIDS, SOLIDS, AND GASES. FOLLOWING BRIEF SUMMARIES OF A RECENT PUBLICATION ON METHODS OF ANALYSIS FOR WATER IS A DETAILED DISCUSSION OF THE KARL FISCHER REAGENT (KFR).

AVAILABILITY: WILEY-INTERSCIENCE A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006041

PUBLICATION DATE: 79

TITLE: CHEMODYNAMICS: ENVIRONMENTAL MOVEMENT OF CHEMICALS IN AIR, WATER AND SOIL.

PERSONAL AUTHOR: THIBODEAUX, LOUIS J.

DESCRIPTOR: AIR; *CHEMISTRY; *CHEMODYNAMICS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *POLLUTION; SOIL; WATER

DESCRIPTIVE NOTE: 501P. PRICE: $36.00

ABSTRACT: IN THIS ADVANCED TEXT, THE GENERAL TOPIC OF MOVEMENT WITHIN AND THE EXCHANGE OF MANMADE CHEMICALS BETWEEN THE THREE PHASES OF THE ENVIRONMENT - AIR, SOIL, AND WATER IS COVERED IN DETAIL.

AVAILABILITY: WILEY-INTERSCIENCE A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006042

PUBLICATION DATE: NOV 80

TITLE: AQUATIC MICROBIOLOGY, 2ND EDITION.

PERSONAL AUTHOR: RHEINHEIMER, G.

DESCRIPTOR: ALGAE; *AQUATIC ORGANISMS; BACTERIA; ECOSYSTEMS; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POLLUTION; *POST SECONDARY EDUCATION; SEDIMENTS; WATER POLLUTION

DESCRIPTIVE NOTE: 240P. PRICE: $28.00

ABSTRACT: THIS TEXT PRESENTS A CONCISE INTRODUCTION TO THE SUBJECT OF AQUATIC MICROBIOLOGY, PROVIDING AN OVERALL VIEW OF THE BACTERIA, BLUE-GREEN ALGAE, FUNGI, AND VIRUSES IN WATER AND SEDIMENTS. PROVIDED IS A TREATMENT OF THE FUNCTION OF MICROORGANISMS IN AQUATIC ECOSYSTEMS, THE FOOD CHAIN, SEDIMENTATION, FORMATION OF MINERAL RESOURCES, POLLUTION, AND SELF-PURIFICATION.

AVAILABILITY: WILEY-INTERSCIENCE A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006043

PUBLICATION DATE: 80

TITLE: INTRODUCTION TO ENVIRONMENTAL VIROLOGY.

PERSONAL AUTHOR: GITTON, GABRIEL

DESCRIPTOR: EFFLUENTS; ENGINEERING; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; OPERATIONS (WASTEWATER); PARASITES; *PATHOGENS; *POST SECONDARY EDUCATION; SEWAGE; *TEXTBOOKS; WASTEWATER TREATMENT; WATER TREATMENT; *VIROLOGY; *VIRUSES; *WATER QUALITY

DESCRIPTIVE NOTE: 326P. PRICE: $27.50

ABSTRACT: THIS IS THE FIRST TEXTBOOK WRITTEN ON ENVIRONMENTAL VIROLOGY. IT EXAMINES THE EPIDEMIOLOGY, SURVIVAL AND DETECTION OF ENTERIC VIRUSES IN NATURAL WATERS, AS WELL AS FOOD AND WASTE TREATMENT-RELATED OPERATIONS BY USING BOTH ENGINEERING AND VIROLOGICAL VIEWPOINTS. THE FATE OF VIRUSES FOLLOWING LAND APPLICATION OF SEWAGE EFFLUENTS AND RESIDUALS IS COVERED AND THE FATE OF BACTERIAL PATHOGENS AND PROTOZOAN AND HELMINTH PARASITES IS DISCUSSED.

AVAILABILITY: WILEY-INTERSCIENCE A DIVISION OF JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW006044

TITLE: CHEMISTRY--TESTING 1, 2 8 3.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; ANALYTICAL BALANCES; *CHEMISTRY; *CHEMICAL ANALYSIS; *CHEMICAL TESTING; *INSTRUCTIONAL MATERIALS; PH; POLLUTION; PH METERS; TOTAL SOLIDS; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 42 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: LESSON 1 PRESENTS THE MAJOR FEATURES OF AN ANALYTICAL BALANCE AND DEMONSTRATES HOW TO WEIGH AN OBJECT; IN LESSON 2 THE PROCEDURES AND CALCULATIONS INVOLVED IN THE TEST FOR TOTAL SOLIDS ARE SHOWN, AND LESSON 3 PRESENTS THE MAJOR PARTS OF A PH METER, GIVES A BRIEF DESCRIPTION OF BUFFER SOLUTIONS AND THE STEP-BY-STEP PROCEDURES SHOWING USE OF A PH METER INCLUDING STANDARDIZATION.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006045

TITLE: CHEMISTRY--TESTING 4, 5.

DESCRIPTOR: *ALKALINITY; ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR 23 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: LESSON 4 GIVES A LIST OF EQUIPMENT PLUS A STEP-BY-STEP PROCEDURE FOR DETERMINING ALKALINITY BY ELECTRO METRIC TITRATION. SHOWS CALCULATION FOR A 100 ML SAMPLE TO DETERMINE ALKALINITY AND AN INTRODUCTION TO THE UNITS OF ALKALINITY. LESSON 5 SHOWS THE IMPORTANCE OF CLEANING LABORATORY EQUIPMENT AND THE PRACTICES USED.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006046

TITLE: CHEMISTRY--TESTING 6, 7, 8 8.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL ANALYSIS; *CHEMICAL TESTING; *DISSOLVED OXYGEN; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; OPERATIONS(WATER); *OPERATIONS (WASTEWATER); *OXYGEN; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 43 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: IN LESSON 6 IT IS LEARNED WHAT DISSOLVED OXYGEN IS AND HOW IT CHANGES WITH TEMPERATURE AND ELEVATION. A BRIEF EXPLANATION IS GIVEN OF THE WINKLER TEST WITH A LIST OF EQUIPMENT AND CHEMICALS NEEDED FOR THE AZIDE MODIFICATION; LESSON 7 SHOWS THE PROCEDURE TO USE TO DETERMINE DISSOLVED OXYGEN BY USE OF THE B. O. D. BOTTLE AND STEP-BY-STEP PROCEDURE SHOWING HOW TO FIX THE OXYGEN IN THE B.O.D. BOTTLE; LESSON 8 GIVES THE PROCEDURE FOR COMPLETING THE DETERMINATION OF THE D.O. TEST AND GIVES SAMPLE CALCULATIONS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006047

TITLE: CHEMISTRY--TESTING 9, 10.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; CHEMISTRY; CHEMICAL ANALYSIS; CHEMICAL TESTING; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; MEASUREMENT; *WATER QUALITY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 25 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: LESSON NINE IS A DEMONSTRATION OF THE CONSTRUCTION AND USES OF DIFFERENT TYPES OF GLASSWARE COMMONLY ENCOUNTERED IN A CHEMISTRY LABORATORY INCLUDING BEAKERS, BOTTLES, CRUCIBLES, FLASKS, FILTRATION APPARATUS, AND GRADUATES. LESSON TEN SHOWS HOW TO CORRECTLY MEASURE LIQUIDS IN COMMON PIECES OF LABORATORY GLASSWARE AND HOW TO CORRECTLY TRANSFER LIQUIDS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006048

TITLE: CHEMISTRY--TESTING 11, 12.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; SOLIDS; *SETTLEABLE SOLIDS; *SUSPENDED SOLIDS; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 25 MINUTES

ABSTRACT: LESSON 11 IS A DEMONSTRATION OF THE IMHOFF CONE TEST FOR THE VOLUME MEASUREMENT OF SETTLEABLE SOLIDS. LESSON 12 IS A DEMONSTRATION OF THE TEST FOR SUSPENDED SOLIDS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006049

TITLE: MICROBIOLOGY 1, 2, 3.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BACTERIA; *COLIFORM BACTERIA; *INDICATOR ORGANISMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MICROBIOLY; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR 26 MINUTES, ON LOAN FOR TWO WEEKS
ABSTRACT: LESSON 1 SHOWS THE GENERAL CHARACTERISTICS OF BACTERIA, DISCUSSION OF BACTERIA SIZE, SHAPE AND GROWTH NEEDS PLUS DEFINITION OF AEROBIC, ANAEROBIC AND FACULTATIVE BACTERIA; LESSON 2 GIVES THE EXPLANATION OF AN INDICATOR ORGANISM AND A LIST OF IDEAL CHARACTERISTICS; AND LESSON 3 PRESENTS WHAT THE COLIFORM BACTERIA IS AND ITS ADVANTAGE AND DISADVANTAGE AS AN INDICATOR ORGANISM.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006050

TITLE: HYDRAULICS 1, 2, 3, 4.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FLUID FLOW; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *PRESSURE; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 26 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: LESSON 1 SHOWS THE USE OF THE BASIC FLOW EQUATION, Q=AV, FOR A PIPE FLOW PROBLEM; IN LESSON 2 THE USE OF THE FLOW EQUATION IS APPLIED TO PROBLEMS OTHER THAN PIPE FLOW; IN LESSON 3 THE OPERATOR LEARNS TO USE THE PRESSURE EQUATION, P=H, AND LESSON 4 SHOWS PROBLEM SOLVING OF PRESSURE PROBLEMS USING P=H.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006051

TITLE: SAFETY 1, 2, 3.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; EQUIPMENT; *GASES; *GAS MASKS; *INSTRUCTIONAL MATERIALS; *RESPIRATORS; *SAFETY; *SAFETY EQUIPMENT; *TOXIC GASES; *VIDEOCASSETTES; WATER QUALITY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 42 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: THE HAZARDS OF TOXIC GASES AND HOW TO TEST FOR THEM IS EXPLAINED IN LESSON 1; LESSON 2 SHOWS THE HAZARDS OF COMBUSTIBLE GASES AND HOW TO TEST FOR THEM; AND IN LESSON 3 THE USE AND LIMITATIONS OF RESPIRATORS AND GAS MASKS IS SHOWN.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006052

TITLE: SAFETY 4.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BREATHING APPARATUS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *SAFETY; *SAFETY EQUIPMENT; *VIDEOCASSETTES; *WATER QUALITY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 15 MINUTES, ON LOAN FOR TWO WEEKS

ABSTRACT: LESSON 4 GIVES A STEP-BY-STEP PROCEDURE OF THE USE, CARE, AND MAINTENANCE OF SELF-CONTAINED BREATHING APPARATUS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006053

PUBLICATION DATE: JAN 81

TITLE: 1990 PRELIMINARY DRAFT STRATEGY FOR MUNICIPAL WASTEWATER TREATMENT.

DESCRIPTOR: CLEAN WATER ACT; *ENVIRONMENTAL PROTECTION AGENCY; *FEDERAL LEGISLATION; FEDERAL STATE RELATIONSHIP; GRANTS; *GUIDELINES; *MUNICIPALITIES; *PLANNING; *POLLUTION CONTROL; *RECOMMENDATIONS; REGULATIONS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 68P.

ABSTRACT: THIS PAPER PRESENTS A PRELIMINARY DRAFT STRATEGY, PROPOSED BY EPA STAFF, FOR IMPROVING THE NATIONAL MUNICIPAL WASTEWATER TREATMENT PROGRAM. THIS STRATEGY IS THE PRODUCT OF THE MOST COMPREHENSIVE REVIEW AND REDIRECTION THAT EPA HAS EVER CONDUCTED OF ITS CONSTRUCTION GRANTS PROGRAM UNDER THE CLEAN WATER ACT. THE PROPOSED 1990 STRATEGY EMBODIES SUBSTANTIAL CHANGES IN AREAS SUCH AS THE RELATIVE ROLES OF THE FEDERAL AND STATE GOVERNMENTS, A MORE EXPLICIT EMPHASIS ON WATER QUALITY IMPACTS AS THE BASIS FOR DECISIONS, A MORE FLEXIBLE AND SHORTER GRANTS PROCESS, AND A RENEWED EMPHASIS ON ELIMINATING SERIOUS COMPLIANCE PROBLEMS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW006055

PUBLICATION DATE: JAN 81

TITLE: RCRA HAZARDOUS WASTES HANDBOOK - VOLUME I, SECOND EDITION.

PERSONAL AUTHOR: WATSON, TOM; AND OTHERS

DESCRIPTOR: DRINKING WATER; ENVIRONMENT; ENVIRONMENTAL PROTECTION AGENCY; *FEDERAL LEGISLATION; *GUIDES; *HANDBOOK; *HAZARDOUS WASTES; NATURAL RESOURCES; POLLUTION CONTROL; *REGULATIONS; *RESOURCE CONSERVATION AND RECOVERY ACT; *RESOURCE MANAGEMENT; SOLID WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 366P. PRICE: $95.00 FOR TWO VOLUME SET (VOLUME 2-EW 006056)

ABSTRACT: THE PURPOSE OF THIS HANDBOOK IS TO HELP THE READER IN GAINING A WORKING KNOWLEDGE OF THE LARGEST REGULATORY PROGRAM EVER UNDERTAKEN BY THE USEPA, THE RESOURCE CONSERVATION AND RECOVERY ACT (RCTS). THE BOOK ATTEMPTS TO DISTILL THIS BUNDLE OF INTERLOCKING REGULATIONS TO MAKE THEM EASIER TO UNDERSTAND AND APPLY. HOWEVER, THE AUTHORS NOTE THAT THE HANDBOOK IS INTENDED FOR INFORMATION DISSEMINATION PURPOSES ONLY AND SHOULD NOT BE VIEWED AS LEGAL ADVICE. CHAPTERS IN THIS FIRST VOLUME INCLUDE: OVERVIEW OF RCRA: THE HAZARDOUS WASTE PROGRAM, THE IDENTIFICATION OF HAZARDOUS WASTE, NOTIFICATION OF HAZARDOUS WASTE MANAGEMENT ACTIVITIES, GENERATORS OF HAZARDOUS WASTE, TRANSPORTERS OF HAZARDOUS WASTES, THE REGULATIONS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL (T/S/D) FACILITIES, PERMIT REQUIREMENTS UNDER RCRA, AUTHORIZATION OF STATES TO IMPLEMENT A RCRA SUBTITLE C HAZARDOUS WASTE MANAGEMENT PROGRAM, INSPECTION AND ENFORCEMENT, AND SUPERFUND LEGISLATION. THE ACTUAL RCRA LEGISLATION IS ALSO INCLUDED.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., P. O. BOX 1096, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW006056
PUBLICATION DATE: JAN 81

TITLE: RCRA HAZARDOUS WASTES HANDBOOK - VOLUME II, SECOND EDITION.

PERSONAL AUTHOR: WATSON, TOM; AND OTHERS

DESCRIPTOR: DRINKING WATER; ENVIRONMENT; ENVIRONMENTAL PROTECTION AGENCY; *FEDERAL LEGISLATION; *GUIDES; *HANDBOOK; *HAZARDOUS WASTES; NATURAL RESOURCES; POLLUTION CONTROL; *REGULATIONS; *RESOURCE CONSERVATION AND RECOVERY ACT; *RESOURCE MANAGEMENT; SOLID WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: PRICE: $95.00 FOR TWO VOLUME SET (VOLUME 1-EW 006 055)

ABSTRACT: THE PURPOSE OF THIS HANDBOOK AND THE ACCOMPANYING VOLUME I HANDBOOK IS TO HELP THE READER IN GAINING A WORKING KNOWLEDGE OF THE LARGEST REGULATORY PROGRAM EVER UNDERTAKEN BY THE USEPA, THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OF 1976. THIS VOLUME CONTAINS NUMEROUS APPLICABLE FEDERAL REGISTERS UNDER RCRA. TOPICS ADDRESSED BY LEGISLATION INCLUDE CLEAN WATER, SOLID WASTES, AND ALL ASPECTS OF HAZARDOUS WASTES. VOLUME I OF THIS SET INCLUDES EXAMINATION OF HAZARDOUS WASTE GENERATION, TRANSPORTATION, TREATMENT, STORAGE, MANAGEMENT, AND DISPOSAL, FEDERAL REGULATIONS GOVERNING HAZARDOUS WASTES, AND THE SUPERFUND LEGISLATION.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., P. O. BOX 1096, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW006060

PUBLICATION DATE: 79

TITLE: THE ECOLOGY OF REGULATED STREAMS.

PERSONAL AUTHOR: WARD, JAMES V.; STANFORD, JACK A.

DESCRIPTOR: AQUATIC ENVIRONMENTS; BIOLOGICAL ANALYSIS; *CONFERENCE PROCEEDINGS; *DAMS; ECOLOGICAL FACTORS; *ECOLOGY; IMPACT ASSESSMENT; *RESEARCH REPORTS; *RIVERS; *STREAMS; *SYMPOSIA; *WATER RESOURCES

DESCRIPTIVE NOTE: 398P. PRICE: $35.00

ABSTRACT: THIS BOOK, A COMPILATION OF 20 PAPERS, IS A COMPREHENSIVE REVIEW OF EXISTING KNOWLEDGE ON THE ECOLOGY OF STREAM REGULATION. THE TEXT FOCUSES SPECIFICALLY ON DOWNSTREAM EFFECTS, EMPHASIZING THE ECOLOGICAL AND BIOLOGICAL IMPACT OF DAMS. IT SYNTHESIZES PRESENT KNOWLEDGE ON REGULATED STREAMS, PROVIDES A VEHICLE FOR SCIENTIFIC RESOLUTION OF ECOLOGICAL PROBLEMS RESULTING FROM STREAM REGULATION, STIMULATES FUTURE RESEARCH, AND PROVIDES DATA FOR THE BENEFICIAL MODIFICATION OF FUTURE STREAM REGULATION PROJECTS.

AVAILABILITY: PLENUM PUBLISHING CORPORATION, 227 WEST 17TH STREET, NEW YORK, NY 10011

IRIS ACCESSION NUMBER: EW006061
PUBLICATION DATE: JUN 78

TITLE: CONTROLLING CORROSION WITHIN WATER SYSTEMS.

DESCRIPTOR: *CORROSION; INSTRUMENTATION; INHIBITORS; *PIPES; REGULATIONS; *SEMINAR PROCEEDINGS; UTILITIES; *WATER TREATMENT; *WATER SYSTEMS; WATER QUALITY; WATER SUPPLY

DESCRIPTIVE NOTE: 120P. PRICE: $4.00 - MEMBER; $8.00 - NONMEMBER

ABSTRACT: THE AMERICAN WATER WORKS ASSOCIATION HAS DEFINED A FUNCTIONALLY IDEAL WATER AS WATER WHICH SHOULD NOT BE CORROSIVE OR INCRUSTING, OR LEAVE DEPOSITS ON WATER-CONVEYING STRUCTURES THROUGH WHICH IT PASSES, OR IN WHICH IT MAY BE RETAINED, INCLUDING PIPES, TANKS, WATER HEATERS AND PLUMBING FIXTURES. THE WATER SHOULD BE ADEQUATELY PROTECTED BY NATURAL PROCESSES, OR BY TREATMENT PROCESSES, WHICH ENSURE CONSISTENCY IN QUALITY. THE PAPERS PRESENTED AT THIS SEMINAR DEAL WITH THE PROTECTION OF WATER SUPPLIES FROM CORROSION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006062

PUBLICATION DATE: JUN 78

TITLE: WATER TREATMENT WASTE DISPOSAL.

DESCRIPTOR: DRINKING WATER; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); PLANT RESIDUES; *SEMINAR PROCEEDINGS; SOLIDS DISPOSAL; WATER POLLUTION CONTROL; *WATER TREATMENT; *WASTE DISPOSAL; WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 136P. PRICE: $4.25 - MEMBER; $8.50-NONMEMBER

ABSTRACT: THESE SEMINAR PROCEEDINGS DEAL WITH WATER TREATMENT AND WASTE DISPOSAL. TOPICS COVERED INCLUDE ALTERNATIVE SOLID DISPOSAL METHODS, MANAGEMENT OF WATER TREATMENT PLANT RESIDUES, DISPOSAL OF WATER PLANT WASTES, FILTER WASTEWATER AND ALUM SLUDGE DISPOSAL, RECOVERY OF LIME AND MAGNESIUM COMPOUNDS FROM WATER PLANT SLUDGE, MINIMIZATION OF WATER TREATMENT PLANT SLUDGES, THE ENVIRONMENTAL PROTECTION AGENCY'S POLLUTION ABATEMENT PROGRAM AND THE IMPACT OF WASTE TREATMENT ON THE WATER SUPPLY INDUSTRY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006063

PUBLICATION DATE: MAY 77

TITLE: HAZARDOUS MATERIAL SPILLS.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CHEMICAL INDUSTRY; CHEMICALS; *EMERGENCIES; *HAZARDOUS MATERIALS; PIPELINE TRANSPORTATION; PLANNING; *SEMINAR PROCEEDINGS; *SPILLS; SPILL PREVENTION; *TRANSPORTATION; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 72P. PRICE: $3.50 -MEMBER; $7.00 -NONMEMBER

ABSTRACT: THESE SEMINAR PROCEEDINGS DEAL WITH HAZARDOUS MATERIAL SPILLS IN RELATION TO WATER RESOURCES. THE TOPICS COVERED INCLUDE FEDERAL HAZARDOUS MATERIALS ORGANIZATION, THE CHEMICAL INDUSTRY'S RESPONSE CAPABILITIES FOR HANDLING CHEMICAL EMERGENCIES AS APPLIED TO WATER SUPPLY AND WATER WORKS FACILITIES, STATE AND LOCAL RESPONSE TO CAPABILITIES FOR MATERIAL SPILLS HAZARDOUS TO A WATER SUPPLY, BARGE AND PIPELINE TRANSPORTATION SPILL PREVENTION, AND CASE HISTORIES OR EMERGENCY ACTION REPORTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006064

PUBLICATION DATE: JUN 79
TITLE: WATER CUSTOMER INFORMATION.

DESCRIPTOR: *ADMINISTRATION; DESIGN; *DATA HANDLING; *DATA PROCESSING; *MANAGEMENT; *SEMINAR PROCEEDINGS; *UTILITIES; *WATER CUSTOMER INFORMATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 56P. PRICE: $3.00 -MEMBER; $6.00 -NONMEMBER

ABSTRACT: THESE SEMINAR PROCEEDINGS DEAL WITH THE SUBJECT OF WATER CUSTOMER INFORMATION. SPECIFIC TOPICS COVERED INCLUDE WATER CUSTOMER INFORMATION MANAGEMENT, DATA HANDLING OPTIONS FOR WATER UTILITIES, DATA PROCESSING FEASIBILITY STUDIES, AND ORGANIZING TO DESIGN AND IMPLEMENT SYSTEMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006065

PUBLICATION DATE: JUN 79

TITLE: CONTROLLING ORGANICS IN DRINKING WATER.

DESCRIPTOR: ACTIVATED CARBON; COAGULATION; *CONFERENCES; *CONFERENCE PROCEEDINGS; *DRINKING WATER; DISINFECTANTS; *OPERATIONS (WATER); RESEARCH; WATER SUPPLY; *WATER QUALITY; *WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 136P. PRICE: $4.25-MEMBER; $8.50-NONMEMBERS

ABSTRACT: THESE SEMINAR PROCEEDINGS PROVIDED A FORUM FOR THE DISCUSSION OF THE RESEARCH AND APPLICATION OF WATER TREATMENT TECHNIQUES. BECAUSE GRANULAR ACTIVATED CARBON HAS BEEN PROPOSED, AND IN SOME FORM MAY BE REQUIRED BY GOVERNMENT REGULATIONS, MUCH OF THIS SEMINAR COVERED GRANULAR ADSORBENTS. ALSO COVERED WERE MANY OF THE ALTERNATIVES THAT HAVE BEEN PROPOSED, INCLUDING POWERED ACTIVATED CARBON, AIR STRIPPING, COAGULATION, AND ALTERNATIVE DISINFECTANTS AND OXIDANTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006066

PUBLICATION DATE: 81

TITLE: INDUSTRIAL POLLUTION CONTROL-ISSUES AND TECHNIQUES.

PERSONAL AUTHOR: SELL, NANCY J.

DESCRIPTOR: *COST-BENEFIT ANALYSIS; *ENVIRONMENT; *HAZARDOUS WASTES; *INDUSTRIES; *INDUSTRIAL POLLUTION; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *LEGISLATION; *POLLUTION CONTROL; *POLLUTION CONTROL TECHNIQUES; RESOURCE RECOVERY; WASTE DISPOSAL

DESCRIPTIVE NOTE: 359P. PRICE: $19.50
ABSTRACT: THE FIRST HALF OF THIS BOOK PROVIDES AN OVERVIEW OF WHAT POLLUTION IS, THE EFFECTS OF SPECIFIC POLLUTANTS, AND THE LAWS GOVERNING POLLUTANT EMISSIONS. SPECIFIC AIR, WATER, AND SOLID WASTE CONTROL TECHNIQUES ARE CONSIDERED. THE REMAINING HALF OF THE BOOK IS DEVOTED TO SELECTED INDUSTRIES, RANGING FROM THOSE ASSOCIATED WITH CONSTRUCTION TO THOSE PRODUCING FOODS AND CHEMICALS. EACH INDUSTRY IS CONSIDERED FIRST IN GENERAL TERMS: THE POSSIBLE PROCESSING METHODS, THE PRODUCTION OF VARIOUS POLLUTANTS, AND THE TYPICAL CONTROL METHODS USED. IN EVERY CASE, THE LIMITING FACTORS, WHETHER CHEMICAL, PHYSICAL, OR ECONOMIC, ARE DISCUSSED. RESOURCE RECOVERY AND ENVIRONMENTAL IMPACTS ARE ALSO CONSIDERED.

AVAILABILITY: VAN NOSTRAND REINHOLD, MAIL ORDER SERVICE, 7625 EMPIRE DRIVE, FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW006067

PUBLICATION DATE: 81

TITLE: ENVIRONMENTAL IMPACT ANALYSIS - A NEW DIMENSION IN DECISION MAKING, SECOND EDITION.

PERSONAL AUTHOR: JAIN, R. K.; AND OTHERS

DESCRIPTOR: ANALYTICAL TECHNIQUES; COUNCIL ON ENVIRONMENTAL QUALITY; *DECISION MAKING; *ENVIRONMENTAL IMPACT STATEMENTS;

*ENVIRONMENT; FEDERAL LEGISLATION; *HANDBOOKS; *IMPACT ASSESSMENT; *INSTRUCTIONAL MATERIALS; *NEPA; POST SECONDARY EDUCATION; *REGULATIONS

DESCRIPTIVE NOTE: 393P. PRICE: $27.50

ABSTRACT: RESPONDING TO THE DEMANDS OF THE NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) AND THE NEW CEQ REGULATIONS, THIS UPDATED HANDBOOK SYSTEMATIZES ALL INFORMATION NECESSARY TO DEVELOP A THOROUGH ANALYSIS OF A PROJECT'S EFFECT ON THE ENVIRONMENT. IT PROVIDES A COMPLETE GUIDE TO METHODOLOGY, COVERING THE WHOLE SPECTRUM OF ENVIRONMENTAL CHARACTERISTICS INCLUDING AIR AND WATER QUALITY AND ECOLOGY, AS WELL AS AREAS SUCH AS SOCIOLOGY, ECONOMICS, AND AESTHETICS. CHAPTERS INCLUDE: INTRODUCTION TO ENVIRONMENTAL IMPACT ANALYSIS; NATIONAL ENVIRONMENTAL POLICY ACT (NEPA); ENVIRONMENTAL DOCUMENTS AND CEQ REGULATIONS; ELEMENTS OF ENVIRONMENTAL IMPACT ANALYSIS; IMPACT ASSESSMENT METHODOLOGIES; GENERALIZED APPROACH FOR IMPACT ANALYSIS; PROCEDURES FOR REVIEWING ENVIRONMENTAL IMPACT STATEMENTS; AND SPECIAL ISSUES. THE APPENDICES INCLUDE: THE NATIONAL ENVIRONMENTAL POLICY ACT (PUBLIC LAW 91-190); ATTRIBUTE DESCRIPTOR PACKAGE; A STEP-BY-STEP PROCEDURE FOR DEVELOPING EIA/EIS; AND CEQ REGULATIONS.

AVAILABILITY: VAN NOSTRAND REINHOLD, MAIL ORDER SERVICE, 7625 EMPIRE DRIVE, FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW006068

PUBLICATION DATE: APR 69
TITLE: WATER PURIFICATION, DISTRIBUTION AND SEWAGE DISPOSAL.

DESCRIPTOR: DESIGN; *FACILITIES; *INSTRUCTIONAL MATERIALS; MAINTENANCE; PEACE CORPS; POST SECONDARY EDUCATION; *SEWAGE; *WASTE DISPOSAL; *WATER DISTRIBUTION; *WATER TREATMENT; WASTEWATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: PB80-189285

ABSTRACT: THIS VOLUME AIDS BOTH THE TECHNICAL INSTRUCTOR AS A TRAINING MANUAL AND THE EXTENSION WORKER AS A FIELD REFERENCE. THE VOLUME IS DIVIDED INTO INSTRUCTION UNITS ON: WATER SUPPLY SOURCES; WATER TREATMENT; PLANNING THE DISTRIBUTION SYSTEM; CHARACTERISTICS OF AN ADEQUATE SYSTEM; CONSTRUCTION TECHNIQUES; OPERATION AND MAINTENANCE; THE SCOPE OF DISPOSAL SYSTEM PROJECTS IN HOST COMMUNITIES; THE PRIVY METHOD OF EXCRETA DISPOSAL DESIGN FOR A VILLAGE; AND WATER CARRIED SEWAGE SYSTEMS CONSTRUCTION AND MAINTENANCE. EACH UNIT OF INSTRUCTION IS SUB-DIVIDED INTO AN OVERVIEW, OBJECTIVE, TASKS, FUNCTIONAL SKILLS, TERMINAL PERFORMANCE TESTS, RELATED INFORMATION SUCH AS FINANCING, ROLE OF HEALTH DEPARTMENT AND HUMAN FACTORS AND LESSON PLANS. MANY ILLUSTRATIONS ARE INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006069

PUBLICATION DATE: DEC 79

TITLE: WATER-RELATED ENVIRONMENTAL FATE OF 129 PRIORITY POLLUTANTS, VOLUME II.

PERSONAL AUTHOR: CALLAHAN, M.; AND OTHERS

DESCRIPTOR: *AQUATIC ENVIRONMENTS; *ESTERS; *ETHERS; *HYDROCARBONS; INORGANIC COMPOUNDS; *LITERATURE REVIEWS; *NITROSAMINES; *ORGANIC COMPOUNDS; *POLLUTANTS; *RESEARCH REPORTS; *TOXIC SUBSTANCES; *WATER POLLUTION

DESCRIPTIVE NOTE: PB80-204381

ABSTRACT: THIS REPORT IS A LITERATURE SEARCH AND SUMMARY OF RELEVANT DATA FOR THE INDIVIDUAL FATE PROCESSES (HYDROLYSIS, BIODEGRADATION, PHOTOLYSIS, ETC.) WHICH MIGHT BE EXPECTED TO OCCUR IF A POLLUTANT WERE INTRODUCED INTO AN AQUATIC SYSTEM. THIS VOLUME CONTAINS THE FOLLOWING SIX SECTIONS: HALOGENATED ALIPHATIC HYDROCARBONS; HALOGENATED ETHERS; MONOCYCLIC AROMATICS; PHTHALATE ESTERS; POLYCYCLIC AROMATIC HYDROCARBONS; NITROSAMINES AND MISCELLANEOUS COMPOUNDS. THE APPROACH TAKEN BY THIS REPORT IS TO SUMMARIZE DATA ON THE INDIVIDUAL PROCESSES WHICH MIGHT BE IMPORTANT IN DESCRIBING THE TRANSPORT AND FATE OF POLLUTANTS INTRODUCED AT LOW CONCENTRATIONS INTO AQUATIC ENVIRONMENTS. IF TRANSPORT PROCESSES WILL RESULT IN SIGNIFICANT POLLUTANT TRANSFER TO ANOTHER MEDIUM (I.E. AIR), DATA ARE INCLUDED WHERE AVAILABLE TO DESCRIBE WHAT HAPPENS TO THE POLLUTANT IN THE MEDIUM TO WHICH THE POLLUTANT WAS TRANSFERRED. A LIST OF LITERATURE COVERED IN THE SEARCH IS INCLUDED.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006070

PUBLICATION DATE: DEC 79

TITLE: WATER-RELATED ENVIRONMENTAL FATE OF 129 PRIORITY POLLUTANTS, VOLUME I.

PERSONAL AUTHOR: CALLAHAN, M.; AND OTHERS

DESCRIPTOR: *AQUATIC ENVIRONMENTS; EVALUATION; INORGANIC COMPOUNDS; *LITERATURE REVIEWS; METALS; ORGANIC COMPOUNDS; PESTICIDES; POLLUTANT DISTRIBUTION; *POLLUTANTS; *RESEARCH REPORTS; *TOXIC SUBSTANCES; *WATER POLLUTION

DESCRIPTIVE NOTE: PB80-204373

ABSTRACT: THIS REPORT IS A LITERATURE SEARCH AND SUMMARY OF RELEVANT DATA FOR THE INDIVIDUAL FATE PROCESSES (HYDROLYSIS, BIODEGRADATION, PHOTOLYSIS, ETC.) WHICH MIGHT BE EXPECTED TO OCCUR IF A POLLUTANT WERE INTRODUCED INTO AN AQUATIC SYSTEM. THIS VOLUME CONTAINS THE FOLLOWING FOUR SECTIONS: INTRODUCTION AND TECHNICAL BACKGROUND; METALS AND INORGANICS; PESTICIDES; AND PCB'S AND RELATED COMPOUNDS. THE APPROACH TAKEN BY THIS REPORT IS TO SUMMARIZE DATA ON THE INDIVIDUAL PROCESSES WHICH MIGHT BE IMPORTANT IN DESCRIBING

THE TRANSPORT AND FATE OF POLLUTANTS INTRODUCED AT LOW CONCENTRATIONS INTO AQUATIC ENVIRONMENTS. IF TRANSPORT PROCESSES WILL RESULT IN SIGNIFICANT POLLUTANT TRANSFER TO ANOTHER MEDIUM (I.E. AIR), DATA ARE INCLUDED WHERE AVAILABLE TO DESCRIBE WHAT HAPPENS TO THE POLLUTANT IN THE MEDIUM TO WHICH THE POLLUTANT WAS TRANSFERRED. A LIST OF THE LITERATURE COVERED IN THE SEARCH IS INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006072

PUBLICATION DATE: APR 79

TITLE: HEALTH EFFECTS ASSOCIATED WASTEWATER TREATMENT AND DISPOSAL SYSTEMS STATE-OF-THE-ART REVIEW, VOLUME II, PART 2.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; DISEASE; EPIDEMIOLOGY; *HEALTH; *HEALTH EFFECTS; INFECTIOUS DISEASES; *PUBLIC HEALTH; SLUDGE DISPOSAL; TOXIC DISEASES; TOXICOLOGY; WATER POLLUTION; *WASTEWATER TREATMENT; *WASTEWATER DISPOSAL

ABSTRACT: THIS ANNOTATED BIBLIOGRAPHY COVERS THE SOURCE DOCUMENTS USED IN THE MAIN TEXT. FOR INDIVIDUAL ARTICLES A BRIEF SUMMARY OF THE MAJOR TOPICS OF DISCUSSION IS PRESENTED. FOR MAJOR REPORTS A SHORT DESCRIPTION OF THEIR CONTENTS IS PROVIDED. A SUBJECT INDEX TO THE BIBLIOGRAPHY IS PROVIDED AT THE BACK OF VOLUME II, PART 2.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006074

PUBLICATION DATE: MAR 80

TITLE: OIL POLLUTION ABSTRACTS, VOLUME 6, NO. 4 (OCTOBER, 1979-DECEMBER, 1979) INTERAGENCY ENERGY/ENVIRONMENT R & D PROGRAM REPORT.

PERSONAL AUTHOR: EHRENSPECK, HELMUT; AND OTHERS

DESCRIPTOR: ABSTRACTS; AQUATIC ENVIRONMENT; ENVIRONMENTAL IMPACT; ENERGY; ENVIRONMENTAL PROTECTION AGENCY; EVALUATION; ENERGY DEVELOPMENT; *OIL POLLUTION; *OIL POLLUTION ABATEMENT; OIL SPILL; OIL EXPLORATION; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 214P.

ABSTRACT: OIL POLLUTION ABSTRACTS IS A QUARTERLY COMPILATION OF CURRENT LITERATURE AND RESEARCH PROJECT SUMMARIES. COMPREHENSIVE COVERAGE OF OIL POLLUTION AND ITS PREVENTION AND CONTROL IS PROVIDED, WITH EMPHASIS ON THE AQUATIC ENVIRONMENT. THIS ISSUE CONTAINS BIBLIOGRAPHIC CITATIONS WITH ABSTRACTS OF SCIENTIFIC AND TECHNICAL PUBLICATIONS AND PATENTS COVERING THE YEARS 1976 TO 1979.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285

PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006076

PUBLICATION DATE: JUL 80

TITLE: HAZARDOUS MATERIALS TRANSPORTATION. 1970-JUNE, 1980. (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

PERSONAL AUTHOR: HABERCOM, GUY E., JR.

DESCRIPTOR: *ACCIDENT PREVENTION; *ANNOTATED BIBLIOGRAPHIES; *CHEMICALS; *EXPLOSIVES; EQUIPMENT DESIGN; GASES; *HAZARDOUS MATERIALS; *HANDLING; *LIQUIFIED NATURAL GAS; LOADING; MATHEMATICAL MODELS; *SPILLS; SIMULATIONS; *TRANSPORTATION

DESCRIPTIVE NOTE: 263P.

ABSTRACT: WORLDWIDE JOURNAL RESEARCH IS CITED ON THE TRANSPORTATION OF HAZARDOUS CHEMICALS, GASES, AND EXPLOSIVES. THE MAJORITY OF STUDIES CONCERN LIQUIFIED NATURAL GAS TRANSPORTATION. TANKER SHIPS, CONTAINERS, AND PIPELINES FOR THESE MATERIALS ARE DISCUSSED. DESCRIPTIONS OF ACCIDENTS, SPILLS, HANDLING, LOADING, AND EQUIPMENT DESIGN ARE COVERED. MATHEMATICAL MODELS AND SIMULATIONS ARE INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006077

PUBLICATION DATE: JUL 80

TITLE: HAZARDOUS MATERIALS TRANSPORTATION: GENERAL STUDIES. 1964-JUNE, 1980. (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: HABERCOM, GUY E., JR.

DESCRIPTOR: *ACCIDENT PREVENTION; *ACCIDENTS; ANNOTATED BIBLIOGRAPHIES; CHLORINE; CHEMICALS; EXPLOSIONS; *HAZARDOUS MATERIALS; PESTICIDES; SAFETY EQUIPMENT; *SPILLS; *SAFETY; STATISTICS; *TRANSPORTATION

DESCRIPTIVE NOTE: 346P.

ABSTRACT: THE TRANSPORTATION OF EXPLOSIVES, ROCKET PROPELLANTS, PESTICIDES, CHEMICAL WARFARE AGENTS, INDUSTRIAL CHEMICALS, LIQUIFIED NATURAL GAS, CHLORINE, AND OTHER HAZARDOUS MATERIALS ARE COVERED. ALL MEANS OF TRANSPORTATION ARE DESCRIBED. ACCIDENTS, INJURIES, EXPLOSIONS, AND SPILLS INVOLVING THESE MATERIALS ARE COVERED. MATERIAL TESTING AND SAFETY EQUIPMENT ARE DISCUSSED. ECONOMICS AND STATISTICS OF HAZARDOUS MATERIAL TRANSPORTATION ARE INCLUDED. RADIOACTIVE WASTES AND MATERIALS ARE EXCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006079
PUBLICATION DATE: MAR 76

TITLE: INTERIM RADIOCHEMICAL METHODOLOGY FOR DRINKING WATER.

PERSONAL AUTHOR: KRIEGER, HERMAN L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; *DRINKING WATER; ENVIRONMENTAL MONITORING; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *LABORATORY PROCEDURES; *MONITORING; POTABLE WATER; *RADIOCHEMISTRY; *RADIOACTIVE CONTAMINANTS; *RADIONUCLIDES

DESCRIPTIVE NOTE: 48P. PB-253258

ABSTRACT: A LABORATORY MANUAL OF RADIOCHEMICAL PROCEDURES HAS BEEN COMPILED AND EDITED FOR USE IN THE ANALYSIS OF SPECIFIC RADIONUCLIDES IN DRINKING WATER FOR WHICH THE U. S. ENVIRONMENTAL PROTECTION AGENCY HAS RECOMMENDED MAXIMUM CONTAMINANT LEVELS IN ITS INTERIM DRINKING WATER REGULATIONS. THE RESULTS INDICATE THE SENSITIVITY OF THE PROCEDURES. INFORMATION ON REAGENT PREPARATION AND SUGGESTED SOURCES FOR PURCHASING SPECIAL EQUIPMENT ARE APPENDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006080

PUBLICATION DATE: OCT 80

TITLE: POLYCHLORINATED BIPHENYLS IN THE ENVIRONMENT. 1964-AUGUST, 1980. (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: AIR POLLUTION; *ANNOTATED BIBLIOGRAPHIES; *ENVIRONMENT; *ECOLOGY; *POLYCHLORINATED BIPHENYLS; *PCB'S; *TOXICITY; *WATER POLLUTION

DESCRIPTIVE NOTE: 294P. PB80-815277

ABSTRACT: THE ENVIRONMENTAL ASPECTS OF POLYCHLORINATED BIPHENYLS (PCB'S) ARE CITED IN THIS BIBLIOGRAPHY. MOST OF THE STUDIES ARE CONCERNED WITH THE TOXICITY, ECOLOGY, AND ABUNDANCE OF PCB'S IN WATER AND AIR. THIS BIBLIOGRAPHY CONTAINS 267 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006083

PUBLICATION DATE: JUN 80

TITLE: HAZARDOUS MATERIALS WASTE DISPOSAL. 1977-JUNE, 1980. (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *HAZARDOUS WASTES; *HAZARDOUS MATERIALS; INCINERATION; LANDFILLS; *MANAGEMENT; PLANNING; POLLUTION; SPILLS; TOXICITY; *WASTE DISPOSAL; WATER POLLUTION

DESCRIPTIVE NOTE: 255P. PB80-812191

ABSTRACT: TOPICS RELATE TO DISPOSAL OF PESTICIDES, EXPLOSIVES, CHEMICAL WARFARE AGENTS, DANGEROUS INDUSTRIAL CHEMICALS, AND OTHER TYPES OF HAZARDOUS MATERIALS. THE CITATIONS INCLUDE RESEARCH ON MANAGEMENT, PLANNING, SPILLS, TOXICITY, WATER POLLUTION ABATEMENT, AND NATIONAL DISPOSAL SITES. POLLUTION STUDIES RELATED TO DISPOSAL IN LANDFILLS AND BY INCINERATION ARE ALSO COVERED. RADIOACTIVE WASTES ARE EXCLUDED. THIS BIBLIOGRAPHY CONTAINS 217 ABSTRACTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006084

PUBLICATION DATE: JUL 80

TITLE: ACTIVATED CHARCOAL. 1970-JUNE, 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: AIR POLLUTION; *ACTIVATED CHARCOAL; *ANNOTATED BIBLIOGRAPHIES; CHEMICAL ADSORPTION; ENGINEERING; ELECTROCHEMISTRY; INDUSTRIES; *INDUSTRIAL WASTES; MINING; *POLLUTION CONTROL; RADIOACTIVE WASTES; ADSORPTION; *WASTE DISPOSAL; WATER TREATMENT; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 104P. PB80-812522

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS FROM A WORLDWIDE LITERATURE SURVEY PERTAINING TO THE USES OF ACTIVATED CHARCOAL IN INDUSTRY AS WELL AS IN THE LABORATORY, INCLUDING ITS USE IN AIR POLLUTION, CHEMICAL ADSORPTION, RADIOACTIVE WASTE ADSORPTION, ELECTROCHEMISTRY, INDUSTRIAL WASTE TREATMENT, AND THE MINING INDUSTRY. THIS BIBLIOGRAPHY CONTAINS 92 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006085

PUBLICATION DATE: JUL 80

TITLE: ACTIVATED CARBON. 1975-1978. (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ACTIVATED CARBON; ANNOTATED BIBLIOGRAPHIES; CHEMICAL ABSORPTION; CHEMICALS;

*INDUSTRIAL WASTES; RADIOACTIVE ISOTOPES; RESEARCH; *SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 239P. PB80-812480

ABSTRACT: THIS BIBLIOGRAPHY OF FEDERALLY-FUNDED RESEARCH CITES REPORTS ON SEWAGE AND INDUSTRIAL WASTE WATER TREATMENT USING ACTIVATED CARBON. THE FIRST PART CONTAINS BOTH LABORATORY AS WELL AS ENGINEERING STUDIES. THE SECOND PART COVERS OTHER REPORTS ON ACTIVATED CARBON INCLUDING RESEARCH ON ITS PROPERTIES AND ITS USE IN AIR POLLUTION CONTROL, GAS AND WATER ANALYSIS, THE ABSORPTION OF CHEMICALS AND RADIOACTIVE ISOTOPES ESPECIALLY IODINE ISOTOPES, AND DRINKING WATER TREATMENT. THIS BIBLIOGRAPHY CONTAINS 239 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006086

PUBLICATION DATE: JUL 80

TITLE: OCEAN WASTE DISPOSAL. 1977-JULY, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: BROWN, ROBENA J.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BRINE; ECOLOGY; *INDUSTRIAL WASTES; *OCEANOLOGY; *OCEAN WASTE DISPOSAL; POLLUTION; RADIOACTIVE WASTES; *SEWAGE DISPOSAL; SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 328P. PB80-814858

ABSTRACT: THE MAIN TOPICS COVER THE OCEAN DISPOSAL OF SEWAGE, SEWAGE SLUDGE, AND DREDGED MATERIAL. ALTHOUGH REPORTS ON THE DISPOSAL OF RADIOACTIVE WASTES, BRINES, AND INDUSTRIAL WASTES ARE ALSO INCLUDED. STUDIES ON THE DISCHARGE OF HEATED EFFLUENTS ARE EXCLUDED. CONTAINS 268 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006087

PUBLICATION DATE: JUL 80

TITLE: ACTIVATED CARBON. 1979-JUNE, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: AIR POLLUTION CONTROL; *ACTIVATED CARBON; *ANNOTATED BIBLIOGRAPHIES; CASE STUDIES; CHEMICALS; ENGINEERING; *INDUSTRIAL WASTES; RADIOACTIVE ISOTOPES; *RESEARCH; SEWAGE; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 100P. PB80-812498

ABSTRACT: THIS BIBLIOGRAPHY OF FEDERALLY-FUNDED RESEARCH CITES REPORTS ON SEWAGE AND INDUSTRIAL WASTEWATER TREATMENT USING ACTIVATED CARBON. THE FIRST PART CONTAINS BOTH LABORATORY AS WELL AS ENGINEERING STUDIES. THE SECOND PART COVERS OTHER REPORTS ON ACTIVATED CARBON INCLUDING RESEARCH ON ITS PROPERTIES AND ITS USE IN AIR POLLUTION CONTROL, GAS AND WATER ANALYSIS, THE ABSORPTION OF CHEMICALS AND RADIOACTIVE ISOTOPES ESPECIALLY IODINE ISOTOPES, AND DRINKING WATER TREATMENT. THIS BIBLIOGRAPHY CONTAINS 75 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006088

PUBLICATION DATE: JUL 80

TITLE: SEWAGE SLUDGE DISPOSAL. 1975-JUNE, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: HUNDEMANN, AUDREY S.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; DISINFECTION; DIGESTION; DEWATERING; IRRADIATION; INCINERATION; LAND DISPOSAL; LEGISLATION; *OPERATIONS(WASTEWATER); RECYCLING; REGULATIONS; *SEWAGE SLUDGE; *SLUDGE DISPOSAL; *SLUDGE; WATER POLLUTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 332P. PB80-813025

ABSTRACT: CITATIONS OF FEDERALLY-FUNDED RESEARCH ON SLUDGE DISINFECTION, IRRADIATION, DIGESTION, DEWATERING, DECONTAMINATION FOR LAND DISPOSAL, RECYCLING, INCINERATION, AND OCEAN DISPOSAL ARE PRESENTED. THE EFFECT OF SEWAGE SLUDGE DISPOSAL ON WATER POLLUTION, ECOSYSTEMS, AND THE ENVIRONMENT IS ALSO COVERED. STUDIES ON REGULATIONS, LEGISLATION, COSTS AND PLANNING ARE INCLUDED. THIS BIBLIOGRAPHY CONTAINS 294 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006089

PUBLICATION DATE: JUL 80

TITLE: WASTE PROCESSING AND POLLUTION IN THE CHEMICAL AND PETROCHEMICAL INDUSTRIES. 1978-JUNE, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: ABATEMENT; ANNOTATED BIBLIOGRAPHIES; *CHEMICALS; *CHEMICAL INDUSTRY; CONTROL PROCESSES; EMISSIONS; ECONOMICS; *INDUSTRIES; *INDUSTRIAL WASTES; *POLLUTION; *PETRCHEMICAL INDUSTRY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 270P. PB80-813306

ABSTRACT: THESE CITATIONS FROM FEDERALLY FUNDED RESEARCH COVER MANY ASPECTS OF WASTE PROCESSING AND POLLUTION IN THE CHEMICAL AND PETROCHEMICAL INDUSTRIES. THE BIBLIOGRAPHY INCLUDES EMISSIONS, ECONOMICS, CONTROL PROCESSES, POLLUTION EFFECTS, AND ABATEMENT STRATEGIES. THE BIBLIOGRAPHY CONTAINS 280 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006090

PUBLICATION DATE: AUG 80

TITLE: OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT. 1976-JULY, 1980. (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: HABERCOM, GUY E., JR.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; COMBUSTION; DISPERSANTS; *EQUIPMENT; FLOTATION; *OIL SPILLS; *OIL POLLUTION; POLLUTION; *REMOVAL TECHNIQUES; RESEARCH; WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 131P. PB80-814809

ABSTRACT: THE REMOVAL PROCESSES COVER OIL WATER SEPARATORS, SKIMMERS, DISPERSANTS, ADSORBENTS, FLOTATION AND COMBUSTION. RELATED STUDIES ON OIL SPREADING, DROPLET ENTRAINMENT, PROTOTYPE REMOVAL SYSTEMS, EQUIPMENT AND COSTS ARE ALSO PRESENTED. OIL WATER SEPARATORS DESIGNED ONLY FOR TANKER BALLAST WATER CLEANING ARE EXCLUDED. THE BIBLIOGRAPHY CONTAINS 131 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006091

PUBLICATION DATE: AUG 80

TITLE: REMOTE SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT. 1964-JULY, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: HUNDEMANN, AUDREY S.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ANNOTATED BIBLIOGRAPHIES; *ENVIRONMENTAL POLLUTION; *MANAGEMENT; *MONITORING; *NOISE POLLUTION CONTROL; *POLLUTION; *REMOTE SENSING; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 187P. PB80-813140

ABSTRACT: APPLICATION OF REMOTE SENSING METHODS TO AIR, WATER, AND NOISE POLLUTION PROBLEMS IS DISCUSSED. TOPIC AREAS COVER CHARACTERISTICS OF DISPERSION AND DIFFUSION BY WHICH POLLUTANTS ARE TRANSPORTED, EUTROPHICATION OF LAKES, THERMAL DISCHARGES FROM ELECTRIC POWER PLANTS, OUTFALLS FROM INDUSTRIAL PLANTS, ATMOSPHERIC AEROSOLS UNDER VARIOUS METEOROLOGICAL CONDITIONS, MONITORING OF OIL SPILLS, AND APPLICATION OF REMOTE SENSING TO ESTUARINE PROBLEMS. THE BIBLIOGRAPHY CONTAINS 187 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006092

PUBLICATION DATE: APR 80

TITLE: BACTERIOLOGICAL METHODS IN WATER QUALITY CONTROL PROGRAMS-TRAINING MANUAL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BACTERIOLOGY; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *LABORATORY PROCEDURES; MONITORING; *SAMPLING; *WATER QUALITY

DESCRIPTIVE NOTE: PB80-211998

ABSTRACT: THIS TRAINING MANUAL IS FOR LABORATORY PERSONNEL WHO PERFORM BASIC BACTERIOLOGICAL LABORATORY PROCEDURES SUCH AS SAMPLING, TRANSFERING, WEIGHING AND RELATED SKILLS. THE COURSE CENTERS ON ASPECTS OF SAMPLING, ANALYSIS AND DATA HANDLING OF BACTERIOLOGICAL SAMPLES AS REQUIRED BY FEDERAL REGISTER GUIDELINES FOR EFFLUENT MONITORING AND OTHER WATER QUALITY PROGRAMS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006093

PUBLICATION DATE: DEC 79

TITLE: APPLICATIONS AND EVALUATION OF DECISION ANALYSIS IN WATER RESOURCES PLANNING.

PERSONAL AUTHOR: SEAVER, DAVID A.; AND OTHERS

DESCRIPTOR: *CASE STUDIES; *DECISION ANALYSIS; *EVALUATION; *MANAGEMENT; MODELING; *PLANNING; RESEARCH; *WATER RESOURCES

DESCRIPTIVE NOTE: 67P. PB80-18548 1

ABSTRACT: THE WORK REPORTED WAS UNDERTAKEN TO EXPLORE THE APPLICABILITY OF DECISION ANALYSIS TO WATER RESOURCES PLANNING. DECISION ANALYSIS WAS USED IN TWO ON-GOING PROBLEMS BY WORKING CLOSELY WITH THE RESPONSIBLE PLANNING AUTHORITIES IN BOTH CASES. THE APPLICATIONS AND AN EVALUATION OF THE USEFULNESS OF DECISION ANALYSIS ARE REPORTED. AN ADDITIONAL DESCRIPTION OF THE GENERAL TECHNIQUES AND POTENTIAL USES OF DECISION ANALYSIS IN WATER RESOURCE PLANNING ARE ALSO INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006094
PUBLICATION DATE: APR 79

TITLE: COMMENSURATION IN FEDERAL WATER RESOURCES PLANNING: PROBLEM ANALYSIS AND RESEARCH APPRAISAL.

PERSONAL AUTHOR: LORD, WILLIAM B.; AND OTHERS

DESCRIPTOR: *COMMENSURATION; *ECONOMIC DEVELOPMENT; *ENVIRONMENTAL QUALITY; *EVALUATION; *FEDERAL GOVERNMENT; *PLANNING; PROBLEM ANALYSIS; RESEARCH; REGIONAL DEVELOPMENT; SOCIAL VALUES; *WATER RESOURCES

DESCRIPTIVE NOTE: 119P. PB80-19102 6

ABSTRACT: THE WATER RESOURCES COUNCIL'S PRINCIPLES AND STANDARDS MAY BE INTERPRETED TO REQUIRE THAT COMMENSURATION BE PERFORMED BETWEEN THE ELEMENTS AND COMPONENTS OF THE SOCIAL WELL-BEING ACCOUNT AND THE REGIONAL DEVELOPMENT ACCOUNT, AS WELL AS WITHIN THE NATIONAL ECONOMIC DEVELOPMENT AND THE ENVIRONMENTAL QUALITY ACCOUNTS. THE AUTHORS ANALYZE THE NATURE OF THE COMMENSURATION PROBLEM, EXAMINE THE BROAD CLASSES OF TECHNIQUES WHICH MAY BE USED TO COMMENSURATE, AND SUGGEST FUTURE RESEARCH DIRECTIONS FOR IMPROVING AVAILABLE TECHNIQUES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006095
PUBLICATION DATE: APR 80

TITLE: OZONE FOR INDUSTRIAL WATER AND WASTEWATER TREATMENT, A LITERATURE SURVEY.

PERSONAL AUTHOR: RICE, RIP G.; AND OTHERS

DESCRIPTOR: BIBLIOGRAPHIES; *DISINFECTION; ECONOMICS; EQUIPMENT; INDUSTRIES; *INDUSTRIAL WASTES; *LITERATURE REVIEWS; MONITORING; *OZONE; *OPERATIONS (WASTEWATER); *RESEARCH REVIEWS; *SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 375P. PB80-195738

ABSTRACT: THIS PROJECT EXPLORED THE TECHNOLOGY OF OZONATION APPLICABLE TO INDUSTRIAL WATER AND WASTEWATER TREATMENT. THE FINAL REPORT DOCUMENTS EXISTING EQUIPMENT, EXTENT OF APPLICATION AND PRACTICAL USAGE, CONTRACT SYSTEMS, MONITORING AND DETECTION DEVICES, GENERAL AND SPECIFIC ECONOMICS, AND RECENT ACCEPTABLE PROCEDURES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006096
PUBLICATION DATE: MAY 80

TITLE: OZONE FOR INDUSTRIAL WATER AND WASTEWATER TREATMENT, AN ANNOTATED BIBLIOGRAPHY.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *DISINFECTION; ECONOMICS; *EQUIPMENT; INDUSTRIES; *INDUSTRIAL WASTES; MONITORING; *OZONE; *OPERATIONS (WASTEWATER); SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 189P. PB80-180037

ABSTRACT: THIS PROJECT EXPLORED THE TECHNOLOGY OF OZONATION APPLICABLE TO INDUSTRIAL WATER AND WASTEWATER TREATMENT. THE FINAL REPORT DOCUMENTS EXISTING EQUIPMENT, EXTENT OF APPLICATION AND PRACTICAL USAGE, CONTRACT SYSTEMS, MONITORING AND DETECTION DEVICES, GENERAL AND SPECIFIC ECONOMICS, AND RECENT ACCEPTABLE PROCEDURES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006097

PUBLICATION DATE: OCT 80

TITLE: OZONIZATION USED IN WATER AND SEWAGE TREATMENT. 1970-AUGUST, 1980. (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).
PERSONAL AUTHOR: CAVAGNARO, DIANE M.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *DISINFECTION; *ECONOMICS; LABORATORY PROCEDURES; *OZONE; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); SEWAGE; *WASTEWATER TREATMENT; *WATER TREATMENT; WATER ANALYSIS

DESCRIPTIVE NOTE: 259P. PB80-815608

ABSTRACT: THE CITED REPORTS FROM A WORLDWIDE LITERATURE SURVEY DISCUSS THE USE OF OZONE FOR INDUSTRIAL WASTE WATER TREATMENT, SEWAGE TREATMENT, AND WATER PURIFICATION. THE CITATIONS COVER SYSTEM DESIGN, OPERATION, COSTS, AND ADVANTAGES OVER OTHER TREATMENT METHODS. SOME STUDIES ON WATER ANALYSIS AFTER TREATMENT ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 260 ABSTRACTS, 65 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006098

PUBLICATION DATE: 80

TITLE: TRIHALOMETHANES IN DRINKING WATER.

DESCRIPTOR: CHEMICALS; DRINKING WATER; FEDERAL REGULATIONS;

*REGULATIONS; *TRIHALOMETHANES; *WATER SUPPLY; WATER QUALITY; *WATER POLLUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: 31P. PRICE: $1.75 -MEMBER; $3.50 -NONMEMBER

ABSTRACT: THE AMERICAN WATER WORKS ASSOCIATION HAS PRODUCED THIS INFORMATIONAL BOOKLET IN KEEPING WITH ITS PRIMARY GOAL OF PROVIDING BETTER WATER FOR PEOPLE. THE QUESTIONS AND ANSWERS CONTAINED IN THIS PUBLICATION PROVIDE THE INFORMATION NEEDED TO COMPLY WITH THE MINIMUM STANDARDS ESTABLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006099

PUBLICATION DATE: MAY 77

TITLE: DISINFECTION.

DESCRIPTOR: *CHLORINE; *DISINFECTION; *DRINKING WATER; *OPERATIONS (WATER); OZONE; PUBLIC HEALTH; POTABLE WATER; QUALITY CONTROL; *SEMINAR PROCEEDINGS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 224P. PRICE: $5.00-MEMBERS; $10.00-NONMEMBER

ABSTRACT: THESE SEMINAR PROCEEDINGS DEAL WITH THE TOPIC OF DISINFECTION. THE 15 PAPERS DISCUSS THE FOLLOWING SUBJECTS IN RELATION TO DISINFECTION: PUBLIC HEALTH, THE ROLE OF OZONE OR CHLORINE IN WATER TREATMENT, CONCEPTS FOR WATER QUALITY CONTROL, DEMONSTRATION PROJECTS OF TREATMENT PLANTS AND WATER RECYCLING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW006100

PUBLICATION DATE: 81

TITLE: HANDBOOK OF INDUSTRIAL WASTES PRETREATMENT.

PERSONAL AUTHOR: DYER, JON C.; AND OTHERS

DESCRIPTOR: CASE STUDIES; *EFFLUENTS; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; MUNICIPALITIES; *PRETREATMENT; *PROGRAM DEVELOPMENT; *POST SECONDARY EDUCATION; *SLUDGE; *TEXTBOOKS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 262P. PRICE: $32.50

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON THE DEVELOPMENT OF LOCAL PRETREATMENT PROGRAMS AND ENCOURAGES THE COOPERATIVE EFFORT REQUIRED BETWEEN THE LOCAL MUNICIPALITY AND ITS RESPECTIVE INDUSTRIES. CHAPTERS INCLUDE: GENERAL PRETREATMENT REGULATION; DEVELOPING A LOCAL PRETREATMENT PROGRAM; ELEMENTS OF A PRETREATMENT PROGRAM; IMPACT OF INDUSTRIAL WASTES ON MUNICIPAL WASTEWATER TREATMENT; SLUDGE DISPOSAL CONSIDERATIONS; INDUSTRY'S ROLE IN PRETREATMENT; AND CASE HISTORIES OF INDUSTRIAL WASTE CONTROL PROGRAMS.

AVAILABILITY: GARLAND PUBLISHING, INC., 136 MADISON AVENUE, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW006102

PUBLICATION DATE: FEB 81

TITLE: AVOID BUILT-IN PROBLEMS WITH PACKAGED SEWAGE LIFT STATIONS.

PERSONAL AUTHOR: HOUCK, WILLIAM S.

DESCRIPTOR: *DESIGN; *ENGINEERING; ECONOMICS; *EQUIPMENT SELECTION; *FACILITIES; *LIFT STATIONS; *PUMPS; *SEWAGE; UTILITIES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 37-39P.

ABSTRACT: MANUFACTURERS SUPPLY A NUMBER OF DIFFERENT CONFIGURATIONS OF PRE-ENGINEERED PUMPING STATIONS TO MOVE WASTEWATER, BUT CAREFUL EQUIPMENT CHOICE IS NECESSARY TO AVOID INSTALLING A STATION THAT WILL BE A PERMANENT NUISANCE.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V97 N2

IRIS ACCESSION NUMBER: EW006103

PUBLICATION DATE: FEB 81

TITLE: TRY CAPACITY CHARGES TO GENERATE WATER UTILITY CAPITAL.

PERSONAL AUTHOR: CATLIN, THOMAS

DESCRIPTOR: *CAPACITY CHARGES; COSTS; *EQUITY; *ECONOMICS; *MANAGEMENT; *UTILITIES; *WATER RATES; *WATER SUPPLY; *WATER COSTS

DESCRIPTIVE NOTE: 61-63P.

ABSTRACT: THE COST OF PROVIDING INCREASED WATER SYSTEM CAPACITY TRADITIONALLY HAS BEEN RECOVERED THROUGH WATER RATES. THE AUTHOR ARGUES THAT DIRECT COST RECOVERY THROUGH CAPACITY CHARGES IS A BETTER SOLUTION TO THE PROBLEM DURING THE INFLATIONARY 1980'S. THIS APPROACH WOULD HAVE THE ADVANTAGES OF BEING MORE EQUITABLE AND ECONOMICALLY EFFICIENT.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V97 N2

IRIS ACCESSION NUMBER: EW006104

PUBLICATION DATE: FEB 81

TITLE: THAWING NONMETALLIC PIPE.

DESCRIPTOR: *COST EFFECTIVENESS; *FREEZING; *MAINTENANCE; NONMETALLIC PIPES; *PIPES; *THAWING; *WATER SUPPLY; *WATER MAINS; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 65P.

ABSTRACT: IN CERTAIN INSTANCES PROPER BURIAL AND INSTALLATION MAY FAIL TO PREVENT WATER FROM FREEZING IN SERVICE LINES AND MAIN PIPES. DESCRIBED IS AN INNOVATIVE, SAFE METHOD WHICH SHOWS GREAT POTENTIAL FOR THAWING WATER IN BOTH METAL AND PLASTIC PIPES.

AVAILABILITY: AMERICAN CITY 8 COUNTY, V97 N2

IRIS ACCESSION NUMBER: EW006105

PUBLICATION DATE: FEB 81

TITLE: CI2 RING SYSTEM.

PERSONAL AUTHOR: BROWN, DAVID F.

DESCRIPTOR: *ACTIVATED SLUDGE; *CHLORINE; *COLIFORM BACTERIA; *DESIGN; *FACILITIES; *FACILITY MODIFICATION; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 28-29P.

ABSTRACT: THIS ARTICLE DESCRIBES HOW DESIGN ENGINEERS IMPROVED AN ACTIVATED SLUDGE TREATMENT PLANT FACILITY SO THAT THE FECAL COLIFORM AND THE CHLORINE RESIDUAL REQUIREMENTS WERE MET. THE MAJOR DESIGN COMPONENT OF THE IMPROVEMENT PROJECT CONSISTED OF A CHLORINE DIFFUSER, WHICH HAD THE ADDITIONAL ADVANTAGES OF REDUCING THE CONTACT BASIN MAINTENANCE AND IMPROVING THE BASIN APPEARANCE.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006106

PUBLICATION DATE: FEB 81

TITLE: CONTACT AERATION USING PLASTIC MEDIA -- A CASE HISTORY.

PERSONAL AUTHOR: HUANG, CHING-SAN; FISHBURN, GARY A.

DESCRIPTOR: *AERATION; AIR DIFFUSERS; *CASE STUDIES; *CONTACT AERATION; CONTACT MEDIA; *DESIGN; *FACILITIES; *FACILITY MODIFICATION; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 30-31P.

ABSTRACT: THIS ARTICLE DESCRIBES HOW THE TREATMENT EFFECTIVENESS AND OPERATING PERFORMANCE IMPROVED AFTER A WASTEWATER TREATMENT PLANT WAS UPGRADED. THE OLD CONTACT MEDIA WERE REPLACED BY HONEYCOMB PLASTIC MEDIA, AND THE AIR DIFFUSERS WERE ALSO CHANGED. THE RESULTING CONTACT AERATION SYSTEM PROVED EASIER TO OPERATE AND MORE EFFICIENT THAN THE OLD SYSTEM.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006107

PUBLICATION DATE: FEB 81

TITLE: INNOVATIVE OXIDATION TECHNOLOGY FOR WASTE PRETREATMENT.

PERSONAL AUTHOR: PETERSON, STANLEY A.; ZALEIKO, NICHOLAS

DESCRIPTOR: *CHEMISTRY; *ENERGY RECOVERY; *ENERGY CONSERVATION; *HYDRAULICS; *ORGANIC COMPOUNDS; *OXIDATION; *PRETREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 32-36P.

ABSTRACT: THIS ARTICLE DESCRIBES A MAJOR BREAKTHROUGH WHICH HAS BEEN ACHIEVED IN THE OXIDATION OF ORGANIC COMPOUNDS, TERMED ZOP, WHICH USES MANY OF THE CHEMISTRIES OCCURRING IN THE ATMOSPHERE. THIS NEW TECHNOLOGY ALLOWS FOR SUCH CHEMICALLY DIVERSE ORGANIC COMPOUNDS AS SLUDGE AND SUGAR WASTES TO BE REDUCED TO THEIR BASIC CHEMICAL CONSTITUENTS IN A TIME PERIOD RANGING FROM 3 TO 30 MINUTES. SUCCESSFUL EMPLOYMENT OF THESE FREE RADICAL CHAIN REACTIONS AT LOW TEMPERATURES ALLOWS AN INEXPENSIVE ENERGY USE AND ENERGY RECOVERY METHOD EASILY OPERATED BY ANY STAFF MEMBER ACQUAINTED WITH HYDRAULICS.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006108

PUBLICATION DATE: FEB 81

TITLE: ODOR CONTROL IN WASTEWATER PLANTS.

PERSONAL AUTHOR: METCALF, RICHARD R.

DESCRIPTOR: *ODOR CONTROL; *ODORS; *POLLUTION; *SEWAGE; *SLUDGE; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 39-76P.

ABSTRACT: EVERY PHASE OF THE COLLECTION AND TREATMENT OF WASTEWATERS IS A POTENTIAL SOURCE OF ODOR. HOWEVER, COMMON SENSE, GOOD ENGINEERING, AND RELATIVELY INEXPENSIVE MEASURES CAN GO A LONG WAY TOWARD ELIMINATING THE PROBLEM OF ODORS EMINATING FROM A WASTEWATER TREATMENT FACILITY.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006109
PUBLICATION DATE: FEB 81

TITLE: WATER RATE SURVEY IN MICHIGAN.

PERSONAL AUTHOR: LANGWORTHY, V. W.

DESCRIPTOR: *COSTS; *DRINKING WATER; *MICHIGAN; *MANAGEMENT; *RATES; *SURVEYS; *UTILITIES; *WATER SYSTEMS; *WATER RESOURCES; *WATER RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: P40P.

ABSTRACT: THE MICHIGAN SECTION OF THE AMERICAN WATER WORKS ASSOCIATION, COMMUNITY RELATIONS COMMITTEE HAS COMPLETED A SURVEY OF WATER RATES CHARGED IN THE STATE. THE SURVEY REPORT CONTAINS RATES CHARGED BY 316 COMMUNITIES IN THE STATE. DATA ARE REPORTED IN A MANNER WHICH PERMITS INTERESTED UTILITY MANAGERS TO COMPARE THEIR RATE STRUCTURE WITH RATES CHARGED BY OTHER COMMUNITIES IN THE STATE.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006110

PUBLICATION DATE: FEB 81

TITLE: OUTLOOK FOR WATER AND WASTEWATER SYSTEMS, PROCESSES, AND EQUIPMENT.

PERSONAL AUTHOR: SAXON, TREVOR; AND OTHERS

DESCRIPTOR: *COSTS; *ECONOMICS; *EQUIPMENT; FUTURE (OF SOCIETY); FEDERAL REGULATIONS; *ENERGY; MAINTENANCE; SLUDGE HANDLING; SLUDGE TREATMENT; *WATER SYSTEMS; *WASTEWATER SYSTEMS

DESCRIPTIVE NOTE: 42-44P.

ABSTRACT: THIS ARTICLE CONTAINS THE OPINIONS AND PREDICTIONS FOR THE FUTURE OUTLOOK OF WATER AND WASTEWATER TREATMENT FROM FOUR ENVIRONMENTAL CONSULTING FIRMS. THEY COMMENT ON HOW ENERGY COSTS, FEDERAL REGULATIONS, AND A CHANGING ECONOMY WILL IMPINGE WATER AND WASTEWATER SYSTEMS, PROCESSES AND EQUIPMENT.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006111

PUBLICATION DATE: FEB 81

TITLE: THE EPA VALUE ENGINEERING PROGRAM, PART 1--WHAT IT IS AND WHAT IT DOES.

PERSONAL AUTHOR: WILLIAMS, ROBERT B.; FARMER, HAIG

DESCRIPTOR: *CONSTRUCTION GRANT PROGRAM; *COSTS; *DESIGN; *ENVIRONMENTAL PROTECTION AGENCY; *ENGINEERING; *VALVE ENGINEERING

DESCRIPTIVE NOTE: 49-50, 66P.

ABSTRACT: VALUE ENGINEERING (VE) WAS FIRST INTRODUCED INTO THE ENVIRONMENTAL PROTECTION AGENCY'S (EPA) CONSTRUCTION GRANT PROGRAM ON A VOLUNTARY BASIS IN 1974. VE WAS DESCRIBED AS A "SYSTEMATIC AND CREATIVE APPROACH TO IDENTIFY UNNECESSARILY HIGH COSTS IN A PROJECT IN ORDER TO ARRIVE AT A COST SAVING WITHOUT SACRIFICING THE RELIABILITY OR EFFICIENCY OF THE PROJECT OR INCREASING OPERATING AND MAINTENANCE COSTS." THE SUCCESS OF THE VOLUNTARY PROGRAM PROMPTED THE EPA TO INSTITUTE A MANDATORY VE PROGRAM IN 1976 WHICH REQUIRED ALL PROJECTS WITH A TOTAL ESTIMATED CONSTRUCTION COST (EXCLUDING THE COST OF SEWERS) OF $10 MILLION OR GREATER TO HAVE VALUE ENGINEERING.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006112

PUBLICATION DATE: FEB 81

TITLE: MODERN MANAGEMENT TECHNIQUES - PART 1--NEED FOR, AND IMPORTANCE OF, PRODUCTIVITY IMPROVEMENT.

PERSONAL AUTHOR: THOMPSON, GARY S.; MCCOY, THOMAS G.

DESCRIPTOR: *COSTS; *EFFICIENCY; *LABOR PRODUCTIVITY; *MANAGEMENT TECHNIQUES; *MANAGEMENT; *ORGANIZATIONAL DESIGN; *PRODUCTIVITY; PLANNING; SCHEDULING; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 52-54, 64P.

ABSTRACT: THE AUTHORS OF THIS ARTICLE ARE MANAGEMENT CONSULTANTS TO LOCAL GOVERNMENT. IN THIS ARTICLE THEY SHARE SOME THOUGHTS REGARDING THE PLANNING AND IMPLEMENTATION OF PRODUCTIVITY IMPROVEMENTS IN THE FIELD OPERATIONS AREA OF WATER AND SEWER UTILITIES, AND PROVIDE A FRAMEWORK FOR MANAGERS TO ACHIEVE RESULTS IN THEIR OWN ENVIRONMENTS.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006113

PUBLICATION DATE: FEB 81

TITLE: IMPACT OF EXPANDING REGULATORY CLIMATE ON WATER UTILITY FINANCING PROGRAMS.

PERSONAL AUTHOR: PAVIA, RICHARD A.

DESCRIPTOR: *COSTS; *CAPITAL IMPROVEMENTS; *DESIGN; *FINANCING; *MANAGEMENT; *PLANNING; *REGULATIONS; *WATER UTILITIES

DESCRIPTIVE NOTE: 57-58P.

ABSTRACT: BECAUSE THE WATER UTILITY INDUSTRY IS VERY

CAPITAL-INTENSIVE, EXCEEDING THE ELECTRIC AND GAS UTILITIES IN RATIO OF INVESTED CAPITAL TO REVENUES, MANAGERS MUST EMPLOY SOUND FINANCIAL PROCEDURES PARTICULARLY DURING THE PRESENT ECONOMIC CLIMATE OF RECORD HIGH INFLATION RATES, INTEREST RATES, AND CONSTRUCTION COSTS.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006114

PUBLICATION DATE: FEB 81

TITLE: ON THE MARGINAL COST OF WATER SUPPLY.

PERSONAL AUTHOR: HANKE, STEVE H.

DESCRIPTOR: *COSTS; *DRINKING WATER; *ECONOMICS; *RATE STRUCTURES; *WATER SUPPLY; *WATER RATES

DESCRIPTIVE NOTE: 60-63P.

ABSTRACT: THIS ARTICLE DESCRIBES A MARGINAL COST STUDY AND THE DEVELOPMENT OF ALTERNATIVE WATER RATE STRUCTURES BASED ON THE STUDY FINDINGS. THE ECONOMIC AND FINANCIAL IMPLICATIONS OF THE PROPOSED CHARGE ARE DISCUSSED IN DETAIL. HOWEVER, A FULL SCALE SIMULATION OF A MARGINAL COST RATE STRUCTURE AND A MORE THOROUGH INVESTIGATION OF ITS RAMIFICATIONS ARE RECOMMENDED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT, V128 N2

IRIS ACCESSION NUMBER: EW006115

PUBLICATION DATE: FEB 81

TITLE: GAO SURVEY FINDS EXTENSIVE TREATMENT PLANT NONCOMPLIANCE.

PERSONAL AUTHOR: FELICIANO, D. V.

DESCRIPTOR: *GENERAL ACCOUNTING OFFICE; MUNICIPALITIES; *NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM; PERFORMANCE; POLLUTION PERMITS; REGULATIONS; *SURVEYS; *WASTEWATER TREATMENT; FACILITIES; WATER POLLUTION

DESCRIPTIVE NOTE: 137-143P.

ABSTRACT: THIS ARTICLE SUMMARIZES THE RESULTS OF THE GENERAL ACCOUNTING OFFICES SURVEY OF THE PERFORMANCE OF THE MUNICIPAL TREATMENT PLANTS IN 1980. EIGHTY SEVEN PERCENT OF 242 RANDOMLY SELECTED TREATMENT PLANTS WERE IN VIOLATION OF THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS FOR AT LEAST ONE MONTH PER YEAR, AND THIRTY ONE PERCENT OF THOSE IN VIOLATION WERE CONSIDERED TO BE IN "SERIOUS" VIOLATION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006116

PUBLICATION DATE: FEB 81

TITLE: THE TUG-OF-WARS IN ENVIRONMENTAL ENGINEERING EDUCATION.

PERSONAL AUTHOR: KISH, T.

DESCRIPTOR: CURRICULUM; ENGINEERING EDUCATION; *ENVIRONMENT; FUNDING; GRADUATES; GRADUATE STUDY; INDUSTRIES; PERSONNEL; *PROBLEMS; *UNIVERSITIES

DESCRIPTIVE NOTE: 143-148P.

ABSTRACT: THE IMMEDIATE FUTURE OF ENVIRONMENTAL AS WELL AS OTHER ENGINEERING PROGRAMS IS NOT AS BRIGHT AS IT SHOULD BE. THE VARIOUS TUG-OF-WARS FOR GRADUATES AND FACULTY, THE LACK OF ADVANCED DEGREES, THE LACK OF FEDERAL FUNDING, THE LACK OF SALARY DIFFERENCES BETWEEN THE NEWLY GRADUATED B.S., M.S., AND PH.D. ENGINEERS, THE FOREIGN NATIONAL SITUATION, THE LACK OF ADEQUATE TEACHING EQUIPMENT, THE B.S. VERSUS M.S. PROGRAM DEBATES, AND THE LACK OF ADEQUATE MANPOWER STATISTICS, ARE ALL FACTORS THAT ARE DAMAGING THIS PROFESSION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006117

PUBLICATION DATE: FEB 81

TITLE: METRO CHICAGO'S STUDY OF ENERGY ALTERNATIVES FOR WASTEWATER TREATMENT.

PERSONAL AUTHOR: MCMILLAN, HUGH H.; AND OTHERS

DESCRIPTOR: *CHICAGO; *CASE STUDIES; COSTS; DESIGN; *ENERGY; *ENERGY ALTERNATIVES; *ENERGY CONSERVATION; ENGINEERING; *METROPOLITAN AREAS; *PLANNING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 155-161P.

ABSTRACT: A REALIZATION OF A CHANGING ECONOMIC ENVIRONMENT CAUSED THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO TO REVIEW ALL ITS FACILITIES, TO PREPARE AN INVENTORY OF ITS ENERGY CONSUMERS, TO INITIATE A PROCEDURE TO FOCUS IN THOSE AREAS WHERE ENERGY CONSERVATION WOULD MOST PROBABLY BE FRUITFUL, AND, FINALLY TO IMPLEMENT A PLAN THAT WOULD REDUCE ENERGY CONSUMPTION AND RELATED COSTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006118
PUBLICATION DATE: FEB 81

TITLE: A DISPOSAL-COSTING METHOD FOR EVALUATING SLUDGE DEWATERING CHEMICALS.

PERSONAL AUTHOR: FLAMANG, MICHAEL A.; MARTIRE, ALFRED A.

DESCRIPTOR: *COSTS; *DEWATERING CHEMICALS; *DISPOSAL-COSTING METHOD; *EVALUATION; *EFFECTIVENESS; ECONOMICS; *SLUDGE DISPOSAL; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 162-166P.

ABSTRACT: THE ALLEGHENY COUNTY SANITARY AUTHORITY, PITTSBURGH, PENNSYLVANIA HAS DEVELOPED A PROCEDURE FOR THE EVALUATION OF DEWATERING CHEMICALS. THE TRIAL PROCEDURE PRODUCES HARD, REALISTIC NUMBERS THAT COMPARE THE EFFECTIVENESS OF PRODUCTS, AND YET IT IS CARRIED OUT IN THE PLANT AS A COMPLEMENT TO NORMAL OPERATIONS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006119

PUBLICATION DATE: FEB 81

TITLE: SIMPLE STATISTICS FOR INTERPRETING ENVIRONMENTAL DATA.

PERSONAL AUTHOR: BERTHOUEX, P. M.; HUNTER, W. G.

DESCRIPTOR: *DATA ANALYSIS; *DATA INTERPRETATION; *ENVIRONMENTAL DATA; ENVIRONMENTAL QUALITY; GRAPHS; MONITORING; *OPERATIONS (WASTEWATER); PLANT PERFORMANCE; PROBLEM IDENTIFICATION; *STATISTICS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 167-175P.

ABSTRACT: THIS PAPER DISCUSSES MAKING GRAPHS OF ENVIRONMENTAL QUALITY DATA TO FOCUS MORE CLEARLY THE IMAGINATION OF PERSONS RESPONSIBLE FOR IDENTIFYING SUCH THINGS AS LONG-TERM TRENDS, CYCLICAL FLUCTUATIONS AROUND A TREND, AND SPILLS, SPIKES OR UPSETS IN A SYSTEM'S BEHAVIOR.

AVAILABILITY: JOURNAL POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006120

PUBLICATION DATE: FEB 81

TITLE: SLUDGE MANAGEMENT AND ENERGY INDEPENDENCE.

PERSONAL AUTHOR: MCDONALD, GERALD C.; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; *COSTS; DESIGN; *ENERGY; *ENERGY CONSERVATION; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PLANNING; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 190-200P.
ABSTRACT: THE FRANK E. VANLOVE WATER POLLUTION CONTROL PLANT IS A CONVENTIONAL ACTIVATED SLUDGE PLANT, LOCATED IN MONROE COUNTY, NEW YORK. A SLUDGE MANAGEMENT STUDY OF THE PRESENT DESIGN AND OPERATION OF THE PLANT LED TO THE DEVELOPMENT OF A SLUDGE MANAGEMENT PLAN. THIS PLAN INVOLVES STARVED AIR COMBUSTION WITH REFUSE-DERIVED FUEL WHICH ALLOWS GENERATION OF A SUFFICIENT POWER FOR ON-SITE REQUIREMENTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006121

PUBLICATION DATE: FEB 81

TITLE: EFFECT OF MEAN-CELL RESIDENCE TIME ON ORGANIC COMPOSITION OF ACTIVATED SLUDGE EFFLUENTS.

PERSONAL AUTHOR: SAUNDERS, F. MICHAEL; DICK, RICHARD I.

DESCRIPTOR: ACTIVATED SLUDGE; *EFFLUENTS; EFFLUENT QUALITY; MICROORGANISMS; *OPERATIONS (WASTEWATER); *ORGANIC COMPOSITION; *RESIDENCE TIME; *SLUDGE; TERTIARY SYSTEMS; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 201-215P.

ABSTRACT: THE INFLUENCES OF ORGANISM WASHOUT AND RESULTING CHANGES IN MICROBIAL POPULATIONS WERE EXAMINED THROUGH AN INVESTIGATION OF PHYSICAL AND CHEMICAL CHARACTERISTICS OF ACTIVATED SLUDGE SUSPENSIONS AND EFFLUENTS TO DETERMINE QUANTITATIVELY THE EFFECT OF THE MEAN-CELL RESIDENCE TIME ON THE ORGANIC QUALITY OF ACTIVATED SLUDGE EFFLUENTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006122

PUBLICATION DATE: FEB 81

TITLE: ANAEROBIC TREATMENT IN A SLUDGE BED SYSTEM COMPARED WITH A FILTER SYSTEM.

PERSONAL AUTHOR: FROSTELL, BJORN

DESCRIPTOR: ANAEROBIC TREATMENT; *ANAEROBIC DIGESTION; ANAEROBIC FILTERS; *ECONOMICS; *EFFICIENCY; *FILTER SYSTEMS; *OPERATIONS (WASTEWATER); PROCESS STABILITY; SLUDGE; *SLUDGE BED SYSTEMS; SOLIDS RETENTION TIME; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 216-222P.

ABSTRACT: RESULTS OF EXPERIMENTAL STUDIES INDICATE THAT SLUDGE BED REACTORS COMBINE THE ADVANTAGES OF A FILTER PROCESS WITH THOSE OF THE ANAEROBIC CONTACT PROCESS, IF ADEQUATE SOLIDS RETENTION IS ACHIEVED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006123

PUBLICATION DATE: FEB 81

TITLE: COMPARISONS OF SEALED DIGESTION CHAMBER AND STANDARD METHOD COD TESTS.

PERSONAL AUTHOR: MESSENGER, ALLEN L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AMPULE METHOD; *CHEMICAL OXYGEN DEMAND; *LABORATORY PROCEDURES; *MEASUREMENT; *OPERATIONS (WASTEWATER); *SEALED DIGESTION CHAMBERS; *STANDARD METHODS; *SPECTROPHOTOMETRY; TITRATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 232-236P.

ABSTRACT: RESULTS OF EXPERIMENTAL STUDIES INDICATE THAT THE AMPULE METHOD, IN COMBINATION WITH SPECTROPHOTOMETRIC ANALYSIS OF CR(111) AT 600 MM WAVELENGTH, YIELDS RESULTS COMPARABLE TO THE STANDARD METHOD TEST WITH FEW EXCEPTIONS AND IS MORE SUITABLE FOR ROUTINE ANALYSIS THAN THE ROTATING AMPULE METHOD.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006124

PUBLICATION DATE: FEB 81

TITLE: RE-UTILIZATION OF MUNICIPAL WASTEWATER SLUDGES--METALS AND NITRATE.

PERSONAL AUTHOR: CHANG, A. C.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CROPS; *FERTILIZERS; *LAND APPLICATION; *METALS; *MUNICIPALITIES; *NITRATES; ORGANIC SOLIDS; *RECYCLING; SOILS; *SLUDGE; TRACE METALS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 237-245P.

ABSTRACT: THE PURPOSE OF THIS PAPER IS TO EVALUATE THE POTENTIAL IMPACT OF TRACE METAL ELEMENTS ASSOCIATED WITH THE LAND REUTILIZATION OF WASTEWATER SLUDGES. RESULTS PUBLISHED IN THE LITERATURE, TOGETHER WITH DATA OBTAINED IN LABORATORY AND FIELD EXPERIMENTS HAVE BEEN USED TO DEMONSTRATE THE IMPACT OF CROPLAND APPLICATION OF MUCH SLUDGES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006125

PUBLICATION DATE: FEB 81

TITLE: COST-EFFECTIVE WATER QUALITY PLANNING FOR URBAN AREAS.

PERSONAL AUTHOR: ELLIS, FRANKLIN W.; WYCOFF, RONALD L.

DESCRIPTOR: *COST EFFECTIVENESS; *CASE STUDIES; *ECONOMICS; *MANAGEMENT; *MARGINAL COST ANALYSIS; *PLANNING; *URBAN AREAS; URBAN PLANNING; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 246-258P.

ABSTRACT: THE PURPOSE OF THIS PAPER IS TO PRESENT A TWO-PHASE APPROACH TO URBAN WATER POLLUTION CONTROL PLANNING TO ACHIEVE THE GOALS OF THE ENVIRONMENTAL PROTECTION AGENCY'S PROGRAM REQUIREMENTS MEMORANDUMS. THE APPROACH DETERMINES THE DEGREE OF CONTROL REQUIRED, THE MOST COST-EFFECTIVE MIX OF WATER QUALITY MANAGEMENT ALTERNATIVES, AND THE IMPACTS OF THESE ALTERNATIVES ON THE RECEIVING WATER. THE METHODOLOGY CAN ACCOMODATE STAGED IMPLEMENTATION AND A CLEAR UNDERSTANDING OF THE ACTUAL COSTS INCURRED IN MEETING WATER QUALITY GOALS OR STANDARDS THROUGHOUT THE PROCESS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V53 N2

IRIS ACCESSION NUMBER: EW006129
TITLE: INSTRUCTOR DEVELOPMENT WORKSHOP-PARTICIPANT'S HANDBOOK.

DESCRIPTOR: *DRINKING WATER; *INSTRUCTIONAL MATERIALS; *INSTRUCTION; *TEACHER EDUCATION; *WATER QUALITY

DESCRIPTIVE NOTE: 227P.

ABSTRACT: THIS MANUAL FOR PARTICIPANTS AIMS TO PROVIDE REFRESHER TRAINING TO STATE PERSONNEL WHO HAVE BEEN CHARGED WITH THE RESPONSIBILITY OF OVERSEEING TRAINING PROGRAMS DIRECTED AT IMPROVING DRINKING WATER QUALITY. STATE TRAINER RESPONSIBILITIES MAY INCLUDE DEVELOPMENT OF SPECIFIC COURSES, HIRING AND EVALUATING INSTRUCTORS, EVALUATING COURSE EFFECTIVENESS, AND CONDUCTING CLASSES.

AVAILABILITY: APPLIED SCIENCE ASSOCIATES, INC., P. O. BOX 158, VALENCIA, PA 16059

IRIS ACCESSION NUMBER: EW006130

TITLE: INSTRUCTOR DEVELOPMENT WORKSHOP-INSTRUCTOR'S MANUAL.

DESCRIPTOR: *DRINKING WATER; EVALUATION; INSTRUCTION; LESSON PLANS; *TEACHING GUIDES; *WATER QUALITY

DESCRIPTIVE NOTE: 322P.

ABSTRACT: THIS MANUAL IS INTENDED TO SERVE THE INSTRUCTOR AS A COMPLETE GUIDE TO THE COURSE, THE RECOMMENDED UNITS WITH THE COURSE, THE CONTENT OF THE UNITS, OPTIONAL UNITS, HOW TO PREPARE FOR THE UNITS, RECOMMENDATIONS ON HOW TO PRESENT UNITS, SCHEDULING SESSIONS AND THE PARTICIPANTS HANDBOOK AND ITS USE. THE MANUAL IS DIVIDED INTO THREE SECTIONS: PRE-COURSE ACTIVITIES, INSTRUCTOR LESSON PLANS, AND COURSE ASSESSMENT AND EVALUATION. THE MANUAL PROVIDES THE NECESSARY ASSISTANCE TO PREPARE, DELIVER, AND EVALUATE THE INSTRUCTOR DEVELOPMENT WORKSHOP COURSE.

AVAILABILITY: APPLIED SCIENCE ASSOCIATES, INC., P. O. BOX 158, VALENCIA, PA 16059

IRIS ACCESSION NUMBER: EW006136

PUBLICATION DATE: APR 77

TITLE: PACKAGE TREATMENT PLANTS OPERATIONS MANUAL.

PERSONAL AUTHOR: POTTER, LEHN

DESCRIPTOR: CASE HISTORIES; DESIGN; *EQUIPMENT; FACILITIES; GUIDES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *OPERATIONS (WASTEWATER); *PLANT OPERATIONS; *PACKAGE PLANTS; SAFETY; TROUBLESHOOTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 105P. PRICE: $2.50

ABSTRACT: THIS MANUAL IS INTENDED TO SERVE AS A HANDY REFERENCE FOR OPERATION OF A BIOLOGICAL PACKAGE TREATMENT SYSTEM. PART 1 CONTAINS SECTIONS ON PLANT SURVEYS, OBSERVATIONS, TESTS AND INTERPRETATIONS, OPERATIONAL PROCEDURES, LABORATORY PROCEDURES, TROUBLESHOOTING, AND PLANT CHECKLISTS. PART 2 CONTAINS SECTIONS ON BASIC PRINCIPLES OF WASTEWATER TREATMENT, TYPES OF WASTEWATER TREATMENT PROCESSES, DESCRIPTION OF UNIT PROCESS EQUIPMENT, AND EFFECTS OF WEATHER. PART 3 CONTAINS SECTIONS ON CASE HISTORIES, SAFETY AND EMERGENCIES, AND PLANT MANAGEMENT.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006138

PUBLICATION DATE: MAY 76

TITLE: PROCEEDINGS: PESTICIDE RESIDUE HAZARDS TO FARM WORKERS.

DESCRIPTOR: AGRICULTURAL WORKERS; *CHEMICAL HAZARDS; EPIDEMIOLOGY; FEDERAL LEGISLATION; *HEALTH HAZARDS; INTOXICATION; INSECTICIDES; *PESTICIDES; *PESTICIDE RESIDUES; *PUBLIC HEALTH; *RESEARCH

DESCRIPTIVE NOTE: 256P. PRICE: $3.25

ABSTRACT: THESE PROCEEDINGS ARE THE RESULT OF A WORKSHOP DEALING WITH THE SUBJECT OF PESTICIDE RESIDUE HAZARDS TO FARM WORKERS. THE PAPERS PRESENTED DEAL WITH CURRENT RESEARCH STUDIES AND REVIEWS THE EPIDEMIOLOGY, IMPORTANCE, HEALTH EFFECTS, AND ENVIRONMENTAL CYCLING OF PESTICIDES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006139

PUBLICATION DATE: 78

TITLE: CRITERIA FOR A RECOMMENDED STANDARD-OCCUPATIONAL EXPOSURE DURING THE MANUFACTURE AND FORMULATIONS OF PESTICIDES.

DESCRIPTOR: *ACCIDENT PREVENTION; *EXPOSURE; HEALTH HAZARDS; *HEALTH EFFECTS; *OCCUPATIONAL EXPOSURE; *PESTICIDES; *RECOMMENDED STANDARDS; *RESEARCH; *SAFETY

DESCRIPTIVE NOTE: 429P. PRICE: $6.25

ABSTRACT: THIS REPORT BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH EXAMINES THE EFFECT OF THE MANUFACTURE AND FORMULATION OF PESTICIDES ON WORKERS HEALTH AND SAFETY. THIS ANALYSIS PERMITS STANDARDS FOR OCCUPATIONAL EXPOSURE TO BE RECOMMENDED BASED UPON THE EFFECTS OF THE EXPOSURE ON HEALTH.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006140

PUBLICATION DATE: 79

TITLE: TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE UNITED STATES GEOLOGICAL SURVEY-METHODS FOR DETERMINATION OF INORGANIC SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, BOOK 5, CHAPTER A1.

PERSONAL AUTHOR: SKOUGSTAD, MARVIN W.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; CHEMISTRY; FLUVIAL SEDIMENTS; HYDROLOGY; *INORGANIC CHEMICALS; *LABORATORY PROCEDURES; *MEASUREMENT TECHNIQUES; *QUALITY CONTROL; WATER RESOURCES; *WATER POLLUTION

DESCRIPTIVE NOTE: 626P. PRICE: $10.00

ABSTRACT: THIS VOLUME CONTAINS METHODS USED BY THE GEOLOGICAL SURVEY TO ANALYZE SAMPLES OF WATER, SUSPENDED SEDIMENTS, AND BOTTOM MATERIAL FOR THEIR CONTENT OF INORGANIC CONSTITUENTS. METHODS DISCUSSED INCLUDE ATOMIC ABSORPTION SPECTOMETRY, TITRIMENTRY, COLORIMETRY, ELECTROMETRY AND GRAVIMETRY. QUALITY CONTROL, LABORATORY EQUIPMENT AND TECHNIQUES, SAMPLE PREPARATION AND PRETREATMENT ARE ALSO DISCUSSED.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006141
PUBLICATION DATE: 73

TITLE: TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE UNITED STATES GEOLOGICAL SURVEY - STORAGE ANALYSES FOR WATER SUPPLY, BOOK 4, CHAPTER B2.

PERSONAL AUTHOR: RIGGS; H. C.; HARDISON, CLAYTON H.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DESIGN; *HYDROLOGY; *HYDROLOGICAL METHODS; *PLANNING; *STORAGE; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 28P. PRICE: $.75

ABSTRACT: THIS MANUAL BRIEFLY DESCRIBES METHODS OF STORAGE ANALYSIS AND RECOMMENDS A METHOD FOR USE BY THE U. S. GEOLOGICAL SURVEY TO PRODUCE DRAFT-STORAGE RELATIONS USEFUL TO PLANNERS AND DESIGNERS. THE RECOMMENDED METHOD IS DESCRIBED IN DETAIL.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006142

PUBLICATION DATE: 78

TITLE: TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE UNITED STATES GEOLOGICAL SURVEY, COMPUTER MODEL OF TWO-DIMENSIONAL SOLUTE TRANSPORT AND DISPERSION IN GROUND WATER -BOOK 7, CHAPTER C2.

PERSONAL AUTHOR: KNOIKOW, L. F.; BREDEHOEFT, J. D.

DESCRIPTOR: *CHEMICALS; *COMPUTERS; *GEOLOGICAL SURVEY; *GROUNDWATER; *MODELS; *SOLUTE TRANSPORT; *WATER RESOURCES

DESCRIPTIVE NOTE: 90P. PRICE: $2.75

ABSTRACT: THIS BOOK PRESENTS A DIGITAL COMPUTER MODEL FOR CALCULATING CHARGES IN THE CONCENTRATION OF A DISSOLVED CHEMICAL SPECIES IN FLOWING GROUND WATER. THE COMPUTER PROGRAM REPRESENTS A BASIC AND GENERAL MODEL THAT MAY HAVE TO BE MODIFIED BY THE USER FOR EFFICIENT APPLICATIONS TO SPECIFIC FIELD PROBLEMS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006143

PUBLICATION DATE: JUN 79

TITLE: CIVIL ENGINEERING - HYDROLOGY AND HYDRAULICS. DESIGN MANUAL 5.2.

DESCRIPTOR: *CIVIL ENGINEERING; *DESIGN; ENGINEERS; FLOOD CONTROL; FLUID FLOW; GROUNDWATER; *HYDROLOGY; *HYDRAULICS; NAVAL ENGINEERING; SEWERS; *SOIL CONSERVATION; *WATER SUPPLY
DESCRIPTIVE NOTE: 14P.

ABSTRACT: DESIGN CRITERIA FOR USE BY QUALIFIED ENGINEERS ARE PRESENTED FOR PREPARATION OF HYDROLOGIC AND HYDRAULIC STUDIES AND COMPUTATIONS NECESSARY TO THE DESIGN OF STORM DRAINS, FLOOD CONTROL, SANITARY SEWERS, SOIL CONSERVATION, AND WATER SUPPLY SYSTEMS. THE CONTENTS INCLUDE CRITERIA FOR DETERMINING PRECIPITATION, EVAPORATION AND TRANSPIRATION, INFILTRATION, AND RUNOFF; STORM FLOW ANALYSIS, SURFACE WATER DEVELOPMENT, BEHAVIOUR AND CAPABILITY OF GROUNDWATER YIELDING FORMATIONS, DESIGN CRITERIA FOR COASTAL WATER DEVELOPMENT, AND CRITERIA FOR DETERMINING OPEN CHANNEL FLOW, FLOW IN PIPES UNDER PRESSURE, CHANNEL TRANSITIONS, AND PUMP CHARACTERISTICS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006144

PUBLICATION DATE: 80

TITLE: WATER WELLS AND GROUND WATER SUPPLIES IN ONTARIO.

PERSONAL AUTHOR: FUNK, GUNTHER; AND OTHERS

DESCRIPTOR: *CANADA; CONSTRUCTION; *GROUNDWATER; *HYDROLOGY; *WATER SUPPLY; *WATER WELLS; WATER QUALITY

DESCRIPTIVE NOTE: 95P. FREE OF CHARGE

ABSTRACT: THIS PUBLICATION IS INTENDED AS A GUIDE FOR EXISTING OR POTENTIAL USERS OF GROUND WATER SUPPLIES. INCLUDED IS BASIC INFORMATION ON FACTORS WHICH AFFECT THE OCCURRENCE, THE QUANTITY AND THE QUALITY OF GROUND WATER, A SYNOPSIS ON WELL CONSTRUCTION, AND A DISCUSSION OF COMMON PROBLEMS ASSOCIATED WITH WELLS AND WATER SUPPLY SYSTEMS. IN ADDITION THE EXISTING ONTARIO WATER WELL REGULATIONS ARE DISCUSSED WITH RESPECT TO THE WELL OWNER AND THE WATER WELL CONTRACTOR.

AVAILABILITY: ONTARIO MINISTRY OF THE ENVIRONMENT, CENTRAL REGIONAL OFFICE, 150 FERRAND DRIVE, TORONTO, ONTARIO M3C 3C3, CANADA

IRIS ACCESSION NUMBER: EW006145

PUBLICATION DATE: OCT 79

TITLE: EFFECTIVENESS OF SOIL AND WATER CONSERVATION PRACTICES FOR POLLUTION CONTROL.

PERSONAL AUTHOR: HAITH, DOUGLAS A.; LOEHR, RAYMOND C.

DESCRIPTOR: *AGRICULTURAL ECONOMICS; *AGRICULTURE; *CONSERVATION; *MANAGEMENT; MATHEMATICAL MODELS; *POLLUTION CONTROL; *SOIL CONSERVATION; *WATER POLLUTION; *WATER CONSERVATION; *WATER QUALITY

DESCRIPTIVE NOTE: 480P. PB80-122237

ABSTRACT: THE POTENTIAL WATER QUALITY EFFECTS AND ECONOMIC IMPLICATIONS OF SOIL AND WATER CONSERVATION PRACTICES (SWCP'S) ARE IDENTIFIED. METHODS FOR ESTIMATING THE EFFECTS OF SWCP'S ON POLLUTANT LOSSES FROM CROPLANDS ARE PRESENTED. MATHEMATICAL SIMULATION AND LINEAR PROGRAMMING MODELS WERE USED TO ESTIMATE THE EFFECTS OF SWCP'S ON EDGE-OF-FIELD LOSSES OF SEDIMENT, NUTRIENTS, AND PESTICIDES AND TO EVALUATE THE IMPACTS ON INCOME OF IMPLEMENTING SWCP'S FOR POLLUTION CONTROL.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006147

PUBLICATION DATE: 77

TITLE: HEALTH AND SAFETY GUIDE FOR PESTICIDE FORMULATORS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHECKLISTS; *GUIDELINES; *HEALTH; OCCUPATIONAL HEALTH; *PESTICIDES; *PROTECTIVE EQUIPMENT; *REGULATIONS; *SAFETY

DESCRIPTIVE NOTE: 102P. PRICE: $2.00

ABSTRACT: THIS GUIDE WAS DEVELOPED FOR DISTRIBUTION THROUGHOUT THE PESTICIDE INDUSTRY TO AID IN THE EDUCATION AND TRAINING IN THE FIELD OF OCCUPATIONAL SAFETY AND HEALTH. THE MANUAL INCLUDES A SECTION ON GUIDELINES, FREQUENTLY VIOLATED REGULATIONS, AND CHECKLISTS. ALTHOUGH THIS BOOK WAS DEVELOPED PRIMARILY FOR PESTICIDE FORMULATORS, IT MAY ALSO BE USED EFFECTIVELY BY MANY ALLIED TRADES SUCH AS PESTICIDE MANUFACTURERS, REPACKAGERS, DISTRIBUTORS, AND APPLICATORS, WHERE MANY OF THE SAME HEALTH AND SAFETY PROBLEMS EXIST.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006150

PUBLICATION DATE: 80

TITLE: WATER QUALITY IN CATCHMENT ECOSYSTEMS.

PERSONAL AUTHOR: GOWER, A. M.

DESCRIPTOR: *ECONOMICS; *ECOLOGY; *GROUNDWATER; IMPACT ASSESSMENT; *INSTRUCTIONAL MATERIALS; *LAKES; PLANNING; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *RESEARCH REPORTS; *RESERVOIRS; *RIVERS; STANDARDS; *WATER QUALITY; *WATER RESOURCES; WATERSHEDS

DESCRIPTIVE NOTE: 335P. PRICE: $50.00

ABSTRACT: THIS TEXT IS A COMPILATION OF PAPERS ON THE FACTORS WHICH RELATE TO WATER QUALITY OF A CATCHMENT ECOSYSTEM. THIS TOPIC IS EXAMINED IN TERMS OF THE INTERRELATIONSHIPS BETWEEN WATER AND THE PHYSICAL AND HUMAN ENVIRONMENTS. TOPICS COVERED IN THIS TEXT INCLUDE: WATER IN THE CATCHMENT ECOSYSTEM; IMPACTS OF MAN IN CATCHMENTS FROM AGRICULTURE, ROADS AND URBANIZATION, AND DOMESTIC AND INDUSTRIAL WASTES; ECOLOGICAL EFFECTS OF CHANGES IN WATER QUALITY; WATER QUALITY AND HEALTH; WATER QUALITY CONTROL; WATER QUALITY OBJECTIVES AND STANDARDS; THE ECONOMICS OF WATER QUALITY; WATER QUALITY MODELLING; AND WATER QUALITY AND THE PLANNING PROCESS.

AVAILABILITY: JOHN WILEY AND SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW006151

PUBLICATION DATE: 80

TITLE: STOCHASTIC WATER RESOURCES TECHNOLOGY.

PERSONAL AUTHOR: KOTTEGODA, N. T.

DESCRIPTOR: ENGINEERING; FLOODS; HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL MODELING; MATHEMATICS; MODELS; POST SECONDARY EDUCATION; *RESERVOIRS; STATISTICS; *STOCHASTICS; *TECHNOLOGY; *TEXTBOOKS; *WATER RESOURCES

DESCRIPTIVE NOTE: 384P. PRICE: $53.95

ABSTRACT: THIS BOOK PROVIDES A CLEAR EXPOSITION OF THE THEORY AND APPLICATION OF MATHEMATICAL MODELS AND STOCHASTIC PROCESSES IN HYDROLOGY AND WATER RESOURCES ENGINEERING. PRACTICAL ASPECTS ARE EMPHASIZED THROUGHOUT SO THAT THE TREATMENT WILL APPEAL TO PRACTITIONERS AS WELL AS TO ADVANCED STUDENTS. CHAPTERS INCLUDE: INTRODUCTION AND CLIMATE; ANALYSIS OF HYDROLOGIC TIME SERIES; PROBABILITY FUNCTIONS AND THEIR USE; LINEAR STOCHASTIC MODELS; SPECIAL PROPERTIES AND MODELS; STATISTICAL TREATMENT OF FLOODS; PROBABLILITY THEORY APPLIED TO RESERVOIR STORAGE; STOCHASTIC PROGRAMMING METHODS IN SYSTEMS ENGINEERING; AND APPLIED DECISION THEORY.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW006152

PUBLICATION DATE: 80

TITLE: HYDROLOGY AND QUALITY OF WATER RESOURCES.

PERSONAL AUTHOR: HAMMER, MARK J.; MACKICHAN, KENNETH A.

DESCRIPTOR: GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; MANAGEMENT; POLLUTION CONTROL; *POST SECONDARY EDUCATION; RESERVOIRS; RIVERS; *TEXTBOOKS; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 486P. PRICE: $19.95

ABSTRACT: THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF WATER RESOURCES CONSIDERING BOTH QUANTITY AND QUALITY

ASPECTS. FOLLOWING THE INTRODUCTION, HYDROLOGY AND WATER QUALITY FOR GROUND WATER, FLOWING WATERS, AND IMPOUNDED WATERS ARE PRESENTED. THE FINAL CHAPTER INTEGRATES THESE INDIVIDUAL SUBJECTS IN A DISCUSSION ON WATER RESOURCES MANAGEMENT. OTHER CHAPTERS INCLUDE: WATER QUANTITY; WATER QUALITY; HYDROLOGY OF GROUND WATER; GROUND WATER QUALITY; HYDROLOGY OF FLOWING WATERS; WATER QUALITY IN FLOWING WATERS; HYDROLOGY OF IMPOUNDED WATERS; AND WATER QUALITY IN IMPOUNDED WATERS.

AVAILABILITY: JOHN WILEY 8 SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW006153

PUBLICATION DATE: 77

TITLE: EFFECTS OF EXPOSURE TO TOXIC GASES - FIRST AID AND MEDICAL TREATMENT, 2ND EDITION.

PERSONAL AUTHOR: BRAKER, WILLIAM; AND OTHERS

DESCRIPTOR: ASPHYXIANT GASES; ACCIDENTS; *EXPOSURE; *FIRST AID; HEALTH; MUTAGENIC EFFECTS; *MEDICAL TREATMENT; PREVENTIVE HEALTH; SAFETY; TERATOGENIC EFFECTS; TUMORS; *TOXIC GASES; *TOXICITY; TOXIC CHEMICALS

DESCRIPTIVE NOTE: 172P. PRICE: $15.00

ABSTRACT: THIS BOOK IS DESIGNED AS A READY PRACTICAL FIRST AID REFERENCE GUIDE FOR PERSONS CONCERNED IN ADMINISTERING FIRST AID TO OTHERS ENGAGED IN WORKING WITH DANGEROUS GASES, IE. ASPHYXIANT AND TOXIC GASES. THE DANGEROUS GASES CONSIDERED ARE THOSE GENERALLY AVAILABLE COMMERCIALLY AND USED IN DIVERSE INDUSTRIAL, EDUCATIONAL, SCIENTIFIC AND TECHNOLOGICAL APPLICATIONS. SPECIFIC RECOMMENDATIONS DESIGNED TO MIMINIZE AND HOPEFULLY ELIMINATE ACCIDENTS RELATING TO HANDLING OF HAZARDOUS GASES ARE ALSO INCLUDED.

AVAILABILITY: MATHESON GAS PRODUCTS, 8135 UEHLING LANE, DAYTON, OH 45424

IRIS ACCESSION NUMBER: EW006154

PUBLICATION DATE: 76

TITLE: PAINT MANUAL -A WATER RESOURCES TECHNICAL PUBLICATION.

DESCRIPTOR: CORROSION; CLEANING; FERROUS METALS; INSPECTION; *MAINTENANCE; *MANUALS; METALWORK; *PAINTING; *PAINTS; PRESERVATION; *WATER RESOURCES; WOOD WORK

DESCRIPTIVE NOTE: 235P. PRICE: $5.40

ABSTRACT: THIS MANUAL ATTEMPTS TO PROVIDE BASIC INFORMATION ON THE TYPES OF PAINTING MOST FREQUENTLY PERFORMED ON BUREAU OF RECLAMATION WATER RESOURCE DEVELOPMENT PROJECTS. THE MANUAL STRESSES COMMON SPECIFICATIONS, PAINTS, CONVENTIONAL GOOD CLEANING AND PAINTING PRACTICES, AND THE EQUIPMENT AND TECHNIQUES OF INSPECTION. THE BOOK IS DIRECTED PRIMARILY TOWARD ENGINEERS AND INSPECTORS FOR WHOM PAINTING IS AN OCCASIONAL RESPONSIBILITY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006169

PUBLICATION DATE: 80

TITLE: QUESTIONS AND ANSWERS ON HAZARDOUS WASTE REGULATIONS: WITH GUIDE TO THE MAY 19, 1980 FEDERAL REGISTER.

PERSONAL AUTHOR: U.S. ENVIRONMENTAL PROTECTION AGENCY

DESCRIPTOR: FACILITIES; FEDERAL LEGISLATION; FEDERAL STATE RELATIONSHIPS; *GUIDES; *HAZARDOUS WASTES; *MANAGEMENT; *PERMITS; *PRODUCTION; *REGULATIONS; *STANDARDS; TRANSPORTATION; WASTES; *WASTE DISPOSAL

ABSTRACT: THIS VOLUME IS A GUIDE TO EPA'S HAZARDOUS WASTE MANAGEMENT REGULATIONS IN A QUESTION AND ANSWER FORMAT. THE GUIDE IS PRESENTED IN A KEYWORD FORMAT TO ENABLE THOSE SEEKING SPECIFIC INFORMATION TO FIND IT READILY. QUESTIONS AND ANSWERS ARE ORGANIZED INTO THE FOLLOWING EIGHT SECTIONS: IDENTIFICATION AND LISTING; GENERATOR STANDARDS; TRANSPORTER STANDARDS; FACILITY STANDARDS; CONSOLIDATED PERMITS, FACILITY PERMITS; CONSOLIDATED PERMITS - STATE PROGRAMS; ENFORCEMENT; AND NOTIFICATION.

AVAILABILITY: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW006170

PUBLICATION DATE: FEB 74

TITLE: PROMOTING ENVIRONMENTAL QUALITY THROUGH URBAN PLANNING AND CONTROLS.

PERSONAL AUTHOR: KAISER, EDWARD J.; AND OTHERS

DESCRIPTOR: DESIGN; *ENVIRONMENTAL QUALITY; LAND USE; *MANAGEMENT; *PLANNING; POLLUTION CONTROL; *RESEARCH REPORTS; *URBAN AREAS; WATER RESOURCES

DESCRIPTIVE NOTE: 441P.

ABSTRACT: THIS STUDY FOCUSES ON THE CHANGING AWARENESS AND CURRENT PRACTICES IN PROMOTING ENVIRONMENTAL QUALITY THROUGH URBAN PLANNING AND CONTROLS IN LOCAL AND METROPOLITAN PLANNING AGENCIES. IT ALSO REVIEWS THE MAINSTREAM PRACTICES AND ORIENTATIONS OF THE 1960'S IN VARIOUS SECTORS OF PLANNING ACTIVITY RELATED TO ENVIRONMENTAL QUALITY. THE STUDY REVIEWS PROMISING AND INNOVATIVE APPROACHES IN THE FOLLOWING FOUR SECTORS OF PLANNING: LAND USE PLANNING; WATER RESOURCE MANAGEMENT; URBAN DESIGN; AND PLANNING AND RESIDUALS MANAGEMENT.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006171

PUBLICATION DATE: FEB 81

TITLE: PLASTIC-LINED PIPE SYSTEM OFFERED BY DOW.

DESCRIPTOR: CORROSION; COST EFFECTIVENESS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *PIPE LININGS; *PIPES; PLASTIC PIPES; *TECHNOLOGICAL ADVANCEMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 33-34P.

ABSTRACT: THIS ARTICLE REPORTS ON A PLASTIC-LINED PIPE, DEVELOPED BY DOW CHEMICAL, WHICH IS COST-COMPETITIVE WITH CARBON STEEL PIPE IN MANY CHEMICAL PROCESS APPLICATIONS, YET PROVIDES THE CORROSION RESISTANCE OF CONVENTIONAL FLANGED PLASTIC-LINED PIPING SYSTEMS. DOW'S NEW SYSTEM, CALLED LIGHT SCHEDULE POLYPROPYLENE (LSP) PIPING, ALSO BOASTS EASIER AND CHEAPER INSTALLATION THAN CONVENTIONAL SYSTEMS.

AVAILABILITY: CHEMICAL 8 ENGINEERING NEWS, V59 N6

IRIS ACCESSION NUMBER: EW006172

PUBLICATION DATE: MAR 81

TITLE: REVERSE OSMOSIS PLANT HAS MICROPROCESSOR CONTROL.

DESCRIPTOR: *AUTOMATION; *DESALINATION; ECONOMICS; *FACILITIES; *INSTRUMENTATION; *MICROPROCESSORS; MONITORING; *OSMOSIS; *REVERSE OSMOSIS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 67-69P.

ABSTRACT: FURNISHING SUFFICIENT WATER TO TWO ISLANDS OF FLORIDA'S WEST COAST, INVOLVED THE USE OF A REVERSE OSMOSIS DESALINATION PLANT. THE PRODUCT WATER HAS A TOTAL SOLIDS CONTENT OF AROUND 450 MG/L AND PH OF 7.2. THE RECOVERY RATE IS 80 PERCENT. A UNIQUE FEATURE IS THAT THE PLANT IS THE FIRST OF ITS KIND TO BE MICROPROCESSOR CONTROLLED.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006173

PUBLICATION DATE: MAR 81

TITLE: SEWERS USE PRECAST CONCRETE BOX SECTIONS.

DESCRIPTOR: *BOX SECTIONS; *CONCRETE; *FACILITIES; *GASKETS; *PRODUCTION TECHNIQUES; *PRECAST CONCRETE BOXES; *SEWERS; *STORM SEWERS; *SANITARY SEWERS

DESCRIPTIVE NOTE: 68-69P.

ABSTRACT: DRYCAST REINFORCED BOX SECTIONS ASSEMBLED WITH O-RING GASKETS ARE REPLACING ROUND PIPE AND CAST-IN-PLACE BOXES IN A GROWING NUMBER OF SEWER INSTALLATIONS IN EUROPE. THIS ARTICLE DESCRIBES THE DIFFERENCES IN PRODUCTION TECHNIQUES BETWEEN CONVENTIONAL AND GASKET-JOINT BOXES, AND DISCUSSES ADVANTAGES OF BOTH TYPES.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006174

PUBLICATION DATE: MAR 81

TITLE: CITIZEN PARTICIPATION IN PLANNING WATER STORAGE.

PERSONAL AUTHOR: GROAT, CARY L.

DESCRIPTOR: *CITIZEN PARTICIPATION; *COMMUNITY INVOLVEMENT; *CONSTRUCTION; DESIGN; ENGINEERING; *FACILITIES; *LAND USE; MUNICIPAL UTILITIES; *PLANNING; *PUBLIC PARTICIPATION; *WATER STORAGE

DESCRIPTIVE NOTE: 77-81P.

ABSTRACT: INCREASED CITIZEN AWARENESS OF THE AESTHETIC AND NATURAL ENVIRONMENT HAS RESULTED IN THE NEED FOR COMMUNITY INVOLVEMENT IN THE PLANNING OF WATER STORAGE AND RELATED FACILITIES. CITIZEN PARTICIPATION EFFORTS ARE MOST SUCCESSFUL IF IMPLEMENTED BEFORE CITIZEN OR INTERAGENCY MISUNDERSTANDINGS ARE DEVELOPED. INCLUSION RATHER THAN EXCLUSION OF ALL INTERESTED INDIVIDUALS IN SITE SELECTION AND DESIGN IS A SURE WAY TO ASSURE A NON-CONTROVERSIAL WATER STORAGE CONSTRUCTION PROGRAM.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006175

PUBLICATION DATE: MAR 81

TITLE: PRESSURE SEWER SYSTEM PROVES EFFECTIVE, ECONOMICAL.

PERSONAL AUTHOR: BOWNE, W. C.; BALL, H. L.

DESCRIPTOR: *COSTS; *CONSTRUCTION; DESIGN; *EFFECTIVENESS; *ECONOMICS; ENERGY; *MAINTENANCE; *PRESSURE SEWERS; *SEWER SYSTEMS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 83-86P.

ABSTRACT: PRESSURE SEWERS CAN EFFECTIVELY BRIDGE THE GAP BETWEEN CONVENTIONAL SEWERAGE AND SEPTIC TANK/SOIL ABSORPTION SYSTEMS TO PROVIDE A RECOGNIZED ALTERNATIVE IN AREAS OTHERWISE DIFFICULT TO SERVE. THE TECHNOLOGY OF PRESSURE SEWERS IS NOT NECESSARILY MORE DIFFICULT THAN THAT OF CONVENTIONAL PRACTICES, BUT IT IS MUCH LESS COMMONLY KNOWN. THE CASE STUDY REPORTED IN THIS ARTICLE DEMONSTRATES THAT A PROPERLY DESIGNED PRESSURE SYSTEM CAN INTEGRATE RELIABILITY, SIMPLE CONSTRUCTION, MAINTENANCE AND COST EFFICIENCY.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006176

PUBLICATION DATE: MAR 81

TITLE: WIDE-RANGE WATER METERING FOR FLUCTUATING SUBURBAN DEMANDS.

DESCRIPTOR: *COSTS; EQUITY; *FLOW MEASUREMENT; *MEASUREMENT; *METERING; *SUBURBAN AREAS; *WATER SUPPLY; *WATER RATES; *WATER CONSUMPTION

DESCRIPTIVE NOTE: 90-91P.

ABSTRACT: WATER FLOW TO THE SUBURBAN PORTION OF THE SERVICE AREA IN MICHIGAN IS 18.5 BILLION CUBIC FEET EACH YEAR -- NEARLY HALF OF THE TOTAL AMOUNT OF WATER USED. ACCURATE METERING ACROSS WIDELY FLUCTUATING FLOW RATES IS ESSENTIAL SINCE A ONE PERCENT DISCREPANCY INVOLVES 185 MILLION CUBIC FEET. IT ALSO ASSURES THAT EACH USER IS EQUITABLY ASSESSED THEIR SHARE OF THE COST OF PRODUCTION AND DISTRIBUTION.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006177

PUBLICATION DATE: MAR 81

TITLE: SLUDGE DISINFECTION BY IRRADIATION.

DESCRIPTOR: *DISINFECTION; HEALTH HAZARDS; *IRRADIATION; *OPERATIONS (WASTEWATER); PATHOGENS; REGULATIONS; *SLUDGE; *SEWAGE; TREATMENT TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 128-131P.

ABSTRACT: BECAUSE OF THE PATHOGENIC ORGANISMS AND FUNGI PRESENT IN UNTREATED SLUDGE, THERE ARE HEALTH HAZARDS ASSOCIATED WITH THE RECYCLING OF SEWAGE SOLIDS. SANDIA NATIONAL LABORATORIES HAS BEEN INVESTIGATING THE TYPES OF BACTERIA, VIRUSES, PARASITES AND FUNGI FOUND IN SLUDGE AND THE EFFECT THAT IRRADIATION HAS ON THEM. SUCCESSFUL OPERATION OF AN IRRADIATION PILOT PLANT HAS LED TO THE DEVELOPMENT OF A TECHNOLOGY TRANSFER PROGRAM BY THE DEPARTMENT OF ENERGY.

AVAILABILITY: PUBLIC WORKS, V112 N3

IRIS ACCESSION NUMBER: EW006178

PUBLICATION DATE: 80

TITLE: DRINKING WATER AND HEALTH, VOLUME 2.

DESCRIPTOR: ACTIVATED CARBON; *DISINFECTION; *DRINKING WATER; LABORATORY PROCEDURES; *OPERATIONS (WATER); *PUBLIC HEALTH; WATER POLLUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: 402P. PRICE: $15.10

ABSTRACT: THIS BOOK CONTAINS THE RESULTS OF STUDIES COMPLETED BY THE SAFE DRINKING WATER COMMITTEE SINCE 1977. THIS VOLUME CONTAINS AN ASSESSMENT OF PROCESSES AND CHEMICALS FOR THE DISINFECTION OF DRINKING WATER, IDENTIFICATION OF THE BY-PRODUCTS RESULTING FROM THEIR USE, AND AN EVALUATION OF GRANULAR ACTIVATED CARBON FOR REMOVAL OF ORGANIC AND OTHER CONTAMINANTS FROM DRINKING WATER.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVENUE, N. W., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW006179

PUBLICATION DATE: 80

TITLE: DRINKING WATER AND HEALTH, VOLUME 3.

DESCRIPTOR: *DRINKING WATER; EPIDEMIOLOGY; *HEALTH; MINERALS; NUTRITION; *PUBLIC HEALTH; *RESEARCH; *RISK ASSESSMENT; *TOXICOLOGY; *WATER POLLUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 427P. PRICE: $17.00

ABSTRACT: THIS BOOK CONTAINS THE RESULTS OF STUDIES COMPLETED BY THE SAFE DRINKING WATER COMMITTEE SINCE 1977. THIS VOLUME PROVIDES AN EVALUATION OF SEVERAL EPIDEMIOLOGICAL STUDIES RELATING TO DRINKING WATER, ELABORATION OF PREVIOUS STUDIES OF RISK ESTIMATION, A TOXICOLOGICAL ASSESSMENT OF SELECTED DRINKING WATER CONTAMINANTS, AND AN EXAMINATION OF THE CONTRIBUTION OF DRINKING WATER TO THE MINERAL NUTRITION IN HUMANS.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVENUE, N. W., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW006180

PUBLICATION DATE: 80

TITLE: PRINCIPLES OF WATER QUALITY MANAGEMENT.

PERSONAL AUTHOR: ECKENFELDER, W. WESLEY, JR.

DESCRIPTOR: BIOLOGICAL TREATMENT; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); *POLLUTION CONTROL; *POST SECONDARY EDUCATION; SEWAGE; SLUDGE; *TEXTBOOKS; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 717P. PRICE: $24.95

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO PRESENT A CONCISE SUMMARY OF PRESENT WASTEWATER TREATMENT THEORY, WITH EMPHASIS ON THE APPLICATION OF THAT THEORY TO BOTH MUNICIPAL AND INDUSTRIAL WASTEWATER TREATMENT PROBLEMS. CHAPTERS INCLUDE: GENERAL CONCEPTS OF WATER QUALITY MANAGEMENT; SEWAGE AND INDUSTRIAL WASTE CHARACTERIZATION; ANALYSIS OF POLLUTIONAL EFFECTS IN NATURAL WATERS; CHARACTERISTICS OF

MUNICIPAL WASTEWATERS; INDUSTRIAL WASTEWATERS; WASTEWATER TREATMENT PROCESSES; PRETREATMENT AND PRIMARY TREATMENT; PHYSICAL-CHEMICAL TREATMENT; SLUDGE HANDLING AND DISPOSAL; LAND DISPOSAL OF WASTEWATERS; DEEP WELL DISPOSAL, AND ECONOMICS OF WASTEWATER TREATMENT; THIS BOOK SHOULD PROVE USEFUL AS A TEXT FOR ADVANCED UNDERGRADUATE AND GRADUATE COURSES IN WATER POLLUTION CONTROL, INDUSTRIAL WASTE TREATMENT, AND WATER QUALITY MANAGEMENT.

AVAILABILITY: CBI PUBLISHING COMPANY, INC., 51 SLEEPER STREET, BOSTON, MA 02210

IRIS ACCESSION NUMBER: EW006184

PUBLICATION DATE: 80

TITLE: THE HANDBOOK OF HAZARDOUS WASTE MANAGEMENT.

PERSONAL AUTHOR: METRY, AMIR A.

DESCRIPTOR: HANDLING; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; LAND DISPOSAL; LEGAL LIABILITY; *MANAGEMENT; OCEAN DUMPING; *REGULATIONS; *TOXIC WASTES; *TRANSPORTATION; *TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 446P. PRICE: $45.00

ABSTRACT: THIS BOOK PROVIDES COMPREHENSIVE PROFESSIONAL INFORMATION ON THE IDENTIFICATION, REGULATION, TREATMENT TRANSPORTATION, DISPOSAL, AND OVER-ALL MANAGEMENT OF TODAY'S INDUSTRIAL HAZARDOUS WASTES. ALL TYPES OF HAZARDOUS WASTES ARE DISCUSSED, AND THE LATEST MANAGEMENT METHODS AND TECHNOLOGY ARE PRESENTED. THIS MANUAL IS INTENDED TO BE A PRACTICAL WORKING TOOL FOR MANAGEMENT, ENGINEERS, AND TECHNICAL PERSONNEL.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 265 POST ROAD WEST, WESTPORT, CT 06880

IRIS ACCESSION NUMBER: EW006190

TITLE: EFFLUENT STANDARDS 1, 2, 3, 4.

DESCRIPTOR: *AUDIOVISUAL AIDS; *EFFLUENTS; *INSTRUCTIONAL MATERIALS; INDUSTRIAL WASTES; MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; QUALITY CONTROL; *STANDARDS; SECONDARY TREATMENT; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 44 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 1 DISCUSSES REASONS FOR EFFLUENT STANDARDS, WHAT THEY ARE, AND HOW THEY ARE USED. LESSON 2 SHOWS HOW PERMIT SYSTEMS RELATE TO DISCHARGES (TIED TO 1977 DATA, NO MENTION OF U.S. ENVIRONMENTAL PROTECTION AGENCY PERMIT SYSTEM). LESSON 3 DISCUSSES THE OTHER STANDARDS; EXAMPLES FROM VARIOUS PERMITS ARE GIVEN. LESSON 4 IS A DISCUSSION OF SECONDARY TREATMENT STANDARDS (BASED ON 7/1/77 STANDARDS WITH NO CLEAR DISTINCTION BETWEEN MUNICIPAL AND INDUSTRIAL DISCHARGES).

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OHIO 45268

IRIS ACCESSION NUMBER: EW006191

TITLE: EFFLUENT STANDARDS 5, 6.

DESCRIPTOR: *AUDIOVISUAL AIDS; COMPLIANCE; *EFFLUENTS; *INSTRUCTIONAL MATERIALS; MUNICIPIALITIES; *MONITORING; PERMITS; POST SECONDARY EDUCATION; QUALITY CONTROL; *STANDARDS; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 19 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 5 EXPLAINS WHAT THE COMPLIANCE SCHEDULE OF A PERMIT IS AND HOW IT WORKS (TIED TO 1977 STANDARDS). LESSON 6 EXPLAINS THE REQUIREMENTS OF THE MONITORING SECTION OF A PERMIT (TIED TO MUNICIPAL MONITORING AND TESTING ONLY).

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OHIO 45368

IRIS ACCESSION NUMBER: EW006192

TITLE: DRINKING WATER STANDARDS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *DRINKING WATER; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *STANDARDS; *WATER TREATMENT; *WATER SUPPLY; WATER QUALITY

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 37 MINUTES.

ABSTRACT: THIS VIDEOCASSETTE CONTAINS FIVE LESSONS WHICH DEAL WITH THE TOPIC OF STANDARDS IN RELATION TO DRINKING WATER. THE TOTAL RUNNING TIME IS 37 MINUTES.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006193

TITLE: WATER TREATMENT 1, 2, 3, 4.

DESCRIPTOR: *AUDIOVISUAL AIDS; COAGULATION; CLARIFIERS; CHLORINATION; DISINFECTION; FACILITIES; FLOCCULATION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); PLANT DESIGN; *POST SECONDARY EDUCATION; QUALITY CONTROL; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 50 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 1 CONSIDERS THE BASIC ORIENTATION TO WATER TREATMENT, COMPARES DIFFERENCES BETWEEN SIMPLE AND COMPLEX

TYPES OF TREATMENT PLANTS AND DISCUSSES VARIOUS FACTORS TO BE CONSIDERED IN PLANT DESIGN. LESSON 2 DISCUSSES THE PURPOSE AND GENERAL OPERATION OF A FLOCCULATION-COAGULATION UNIT PROCESS WITH ILLUSTRATION OF MAJOR SYSTEMS. IN LESSON 3 THE PURPOSE AND GENERAL OPERATION OF A RAPID SAND FILTER UNIT AS A BACKUP TO THE CLARIFIER TO AID IN PRODUCING WATER THAT MEETS THE DRINKING WATER STANDARDS IS DISCUSSED; ALSO CONSIDERED ARE THE CLEAR WELL AND CHLORINATION UNITS. LESSON 4 EXPLAINS CHLORINATION, FLOW MEASUREMENT, CLEAR WELL AND FLUORIDATION.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006194

TITLE: WATER TREATMENT 5, 6, 7, 8.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BELT FEEDERS; CHEMICALS; COAGULATION; *CONVEYOR BELTS; DUST COLLECTORS; FLOCCULATION; *INSTRUCTIONAL MATERIALS; *MATERIALS HANDLING; MAINTENANCE; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; QUALITY CONTROL; SAFETY; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 61 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 5 DISCUSSES THE USE OF A CONVEYOR BELT TO FACILITATE HANDLING OF BAGGED CHEMICALS ALONG WITH THE USE OF DUST COLLECTORS ON THE HOPPER OF THE CHEMICAL FEEDER, SAFETY, RESPIRATORS, HOPPER LOADING AND BAG DISPOSAL. LESSON 6 SHOWS HOW A GRAVIMETRIC GATE TYPE BELT FEEDER WORKS. IN LESSON 7 THE OPERATION AND MAINTENANCE OF A GRAVIMETRIC GATE TYPE BELT FEEDER IS EXPLAINED. LESSON 8 DISCUSSES THE GENERAL OPERATION AND TIPS ON THE MAINTENANCE OF COAGULATION-FLOCCULATION UNITS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006195

TITLE: WATER TREATMENT 9, 10, 11.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CLARIFIERS; *FACILITIES; *FILTERS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WATER); POST SECONDARY EDUCATION; QUALITY CONTROL; *SAND FILTERS; *SEDIMENTATION BASINS; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 48 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 9 COVERS THE GENERAL OPERATION AND MAINTENANCE OF CLARIFIERS AND SEDIMENTATION BASINS. LESSONS 10 AND 11 CONSIDER THE GENERAL OPERATION, USE AND MAINTENANCE OF A RAPID SAND FILTER AND THE PREPARATION AND BACKWASH OF FILTERS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006196

TITLE: WASTEWATER TREATMENT 1, 2, 3.

DESCRIPTOR: *AUDIOVISUAL AIDS; BAR SCREENS; COMMINUTORS; FLOW MEASUREMENT; GRIT CHAMBERS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *PRIMARY TREATMENT; SEWAGE; SLUDGE; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 42 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 1 EXPLAINS THE REASONS FOR TREATING WASTEWATER, THE COMPOSITION AND TYPES OF SEWAGE AND TERMINOLOGY USED IN WASTEWATER TREATMENT. LESSON 2 PRESENTS THE PURPOSES OF BAR SCREENS, GRIT CHAMBERS, FLOW MEASUREMENT, AND COMMINUTORS. LESSON 3 IS CONCERNED WITH THE PURPOSES OF THE REMAINING PRIMARY PLANT UNITS, THE CLARIFIERS, DIGESTER AND SLUDGE DRYING BEDS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006197

TITLE: WASTEWATER TREATMENT 4, 5, 6.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ACTIVATED SLUDGE; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *PRIMARY TREATMENT; QUALITY CONTROL; *SECONDARY TREATMENT; TRICKLING FILTERS; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 27 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 4 DISCUSSES THE SECONDARY TREATMENT AND THE BASIC WORKINGS OF A TRICKLING FILTER. LESSON 5 SHOWS THE BASIC WORKINGS OF AN ACTIVATED SLUDGE SYSTEM. LESSON 6 PRESENTS THE GENERAL ORDER OF PLANTS IN THE PRIMARY AND SECONDARY TREATMENT PLANTS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006198

TITLE: WASTE STABILIZATION LAGOON 1, 2.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AEROBIC SYSTEMS; *FACULTATIVE SYSTEMS; *INSTRUCTIONAL MATERIALS; *LAGOONS; MAINTENANCE; *POST SECONDARY EDUCATION; *STABILIZATION LAGOONS; *WASTEWATER TREATMENT; WATER QUALITY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 15.5 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 1 EXPLAINS THE BASIC OPERATIONS OF AEROBIC AND FACULTATIVE SYSTEMS. LESSON 2 TEACHES OPERATIONS OF ANAEROBIC AND AERATED LAGOONS AND PRESENTS A DISCUSSION OF LAGOON MAINTENANCE.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006199

TITLE: CHLORINATION 1, 2.

DESCRIPTOR: *AUDIOVISUAL AIDS; CHEMISTRY; *CHLORINATION; CHLORINE; *DISINFECTION; FIRST AID; HYPOCHLORINATORS; *INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); OPERATIONS (WATER); *POST SECONDARY EDUCATION; QUALITY CONTROL; SAFETY PROCEDURES; WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 21 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: IN LESSON 1 THE OPERATOR LEARNS THE BASIC PROPERTIES OF CHLORINE, THE REASONS FOR CHLORINATION, AND BASIC FIRST AID AND SAFETY PROCEDURES. LESSON 2 EXPLAINS THE SET-UP OF HYPOCHLORINATORS AND GAS CHLORINATORS.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006200

TITLE: CHLORINATION 3, 4, 5, 6.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHLORINATION; CHLORINE METERS; *DISINFECTION; EQUIPMENT; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; SWIMMING POOLS; WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 36 MINUTES. ON LOAN FREE FROM NTOTC FOR TWO WEEKS.

ABSTRACT: LESSON 3 COVERS THE USE AND GENERAL DESCRIPTION OF THE FISHER-PORTER VACUUM PACED TYPE OF CHLORINATOR; LESSON 4 EXPLAINS THE VARIOUS PARTS OF THE FISHER-PORTER CHLORINATOR; THE USE AND HOOK-UP OF THE 100 POUND AND 1 TON CHLORINE CONTAINERS IS COVERED IN LESSON 5; LESSON 6 DISCUSSES THE SWIMMING POOL TYPE OF FISHER-PORTER CHLORINE METER, ITS USE AND MAINTENANCE.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006202

PUBLICATION DATE: MAR 79

TITLE: CONCEPTUAL DESIGNS FOR WATER TREATMENT IN DEMONSTRATION PLANTS.

PERSONAL AUTHOR: SUEFERT, FREDERICK B.; AND OTHERS

DESCRIPTOR: *CASE STUDIES; *DESIGN; DESIGN NEEDS; *FACILITIES; *OPERATIONS (WASTEWATER); RECOMMENDATIONS; RESEARCH; *STATE OF THE ART REVIEWS; *TECHNOLOGICAL ADVANCEMENTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 476P.

ABSTRACT: THE OBJECTIVE OF THIS STUDY IS TO MAKE CONCEPTUAL DESIGNS OF INTEGRATED WATER TREATMENT SYSTEMS FOR SIX COAL CONVERSION PLANTS (FIVE DEMONSTRATION SIZE PLANTS AND ONE COMMERCIAL SIZE PLANT). FURTHER OBJECTIVES ARE TO SHOW IN DETAIL HOW THESE DESIGNS WERE MADE AND HOW THE VARIOUS WATER TREATMENT PLANTS CAN BE OPERATED ON A DEMONSTRATION PLANT SO AS TO GATHER FURTHER INFORMATION FOR IMPROVED DESIGNS. ANOTHER OBJECTIVE IS TO POINT OUT WHERE THE DESIGNS HAVE BEEN MADE ON INSUFFICIENT OR QUESTIONABLE DATA AND TO SHOW WHAT EXPERIMENTS ARE NECESSARY TO IMPROVE THE DATA. PRESENTED ARE SUMMARIES OF MAJOR PLANT WATER STREAMS, THE SELECTION OF CASES FOR STUDY, THE CONCLUSIONS REACHED AND THE RECOMMENDATIONS MADE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006204

PUBLICATION DATE: MAR 81

TITLE: ONE APPROACH TO COMPUTERIZED OPERATION.

PERSONAL AUTHOR: TUBBS, MICHAEL K.

DESCRIPTOR: *CONTROL SYSTEMS; *COMPUTERS; COMPUTER PROGRAMS; *EVALUATION; *COMPUTER APPLICATIONS; *MANAGEMENT; *OPERATIONS (WATER) ; UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 128-129P.

ABSTRACT: TODAY MANY WATER UTILITIES ARE USING COMPUTERS AS AN OPERATING AID IN PUMP STATIONS, PURIFICATION PLANTS, AND DISTRIBUTION SYSTEMS. DALLAS WATER UTILITIES FIRST BEGAN USING A COMPUTER IN 1975. THE APPROACH USED BY THE UTILITY IN SPECIFYING AND ACQUIRING THE DATA ACQUISITION AND CONTROL SYSTEM IS DESCRIBED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006205

PUBLICATION DATE: MAR 81

TITLE: THE COMPUTER AS A TOOL FOR MEETING FUTURE DEMANDS.

PERSONAL AUTHOR: STALLWORTH, THOMAS E., JR.

DESCRIPTOR: *COMPUTERS; *CONTROL SYSTEMS; MANAGEMENT; *OPERATIONS (WATER); *WATER TREATMENT; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 130-131P.

ABSTRACT: A WATER DISTRIBUTION SYSTEM SHOULD BE ENGINEERED AND CONSTRUCTED TO MEET FUTURE PEAK DEMANDS WITHOUT INTERRUPTIONS TO CUSTOMERS, AND TO ENSURE MAXIMUM AVAILABILITY OF WATER. TO MEET THESE REQUIREMENTS, A WATER UTILITY SHOULD HAVE AN ACCURATE RELIABLE REPORTING PROCESS. THE ATLANTA WATER SYSTEM HAS ESTABLISHED A COMPUTER CONTROL SYSTEM TO HELP ACCOMPLISH THESE GOALS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006206

PUBLICATION DATE: MAR 81

TITLE: COMPUTER ADMINISTRATION: PLAN AHEAD AND STAY AHEAD.

PERSONAL AUTHOR: SHIELDS, JOHN R.; HACKETT, ROBERT M.

DESCRIPTOR: *ADMINISTRATION; *COMPUTERS; COST EFFECTIVENESS; *COMPUTER APPLICATIONS; *MANAGEMENT; *OPERATIONS (WATER); *PLANNING; *SYSTEM DESIGN; *UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 132-135P.

ABSTRACT: COMPUTERIZED SYSTEMS CAN ENHANCE ADMINISTRATION CONTROL OVER BASIC UTILITY OPERATIONS AND AT THE SAME TIME REDUCE COSTS. ADVANCE PLANNING IN SYSTEM DESIGN IS, HOWEVER, AN ABSOLUTE MUST FOR SUCCESS. THE KEY POINT TO REMEMBER IS THAT A COMPUTER MERELY MANIPULATES INFORMATION, AND THEN ONLY WHEN THE INFORMATION IS PROVIDED TO IT IN ACCORDANCE WITH CAREFULLY PROGRAMMED INSTRUCTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006207

PUBLICATION DATE: MAR 81

TITLE: INCREASING EMPLOYEE SECURITY AND PRODUCTIVITY WITH COMPUTERS.

PERSONAL AUTHOR: MILLER, WILLIAM H.

DESCRIPTOR: *COMPUTERS; DATA PROCESSING; *EMPLOYEES; EDUCATION; ELECTRONIC DATA PROCESSING; *MANAGEMENT; *OPERATIONS (WATER); *TRAINING; UTITLITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 136-139P.

ABSTRACT: MANAGEMENT IS RESPONSIBLE FOR EDUCATING EMPLOYEES SO THEY UNDERSTAND THAT DATA PROCESSING IS A TOOL TO BE USED, NOT A MONSTER THAT IS A THREAT TO DIGNITY OR JOBS. EMPLOYEES, THROUGH EDUCATION AND TRAINING PROGRAMS, CAN LEARN TO USE AND TO ENJOY ELECTRONIC DATA PROCESSING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006208

PUBLICATION DATE: MAR 81

TITLE: EXPANDING COMPUTER APPLICATIONS TO REDUCE ENERGY CONSUMPTION.

PERSONAL AUTHOR: GILMAN, HAROLD D.

DESCRIPTOR: *COMPUTERS; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *OPERATIONS (WATER); *UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 140-143P.

ABSTRACT: WHERE A DIGITAL COMPUTER IS INSTALLED IN A PLANT FOR MONITORING TREATMENT OPERATIONS, THE APPLICATION CAN BE AUGMENTED TO INCLUDE POWER AND ENERGY MONITORING. THIS ENABLES THE COMPUTER TO GENERATE TIMELY DISPLAYS FOR OPERATOR DECISION-MAKING TO REDUCE POWER AND ENERGY WITHIN THE CONSTRAINTS OF MAINTAINING TREATMENT QUALITY AND DEMAND LEVELS. TO PROVIDE GUIDANCE IN THE CONTROL OF ENERGY AND POWER, FOUR MAJOR FACTORS OF THE PLANT ELECTRIC BILL (ENERGY CHARGE, FUEL ADJUSTMENT CHARGE, DEMAND CHARGE, AND POWER FACTOR ADJUSTMENT) ARE DESCRIBED WITH RESPECT TO BASIC DEFINITIONS AND RECOMMENDATIONS TOWARD COST REDUCTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006209

PUBLICATION DATE: MAR 81

TITLE: WATER CONSERVATION DEVICES FOR NEW OR EXISTING DWELLINGS.

PERSONAL AUTHOR: SHARPE, WILLIAM E.

DESCRIPTOR: *CONSERVATION DEVICES; *COSTS; *EVALUATION; *FIELD TESTS; MANAGEMENT; *RESIDENCES; *WATER CONSERVATION; *WATER UTILITIES; *WATER MANAGEMENT

DESCRIPTIVE NOTE: 144-149P.

ABSTRACT: UNTIL NOW THE UTILITY MANAGER HAS BEEN COMPELLED

TO TEST AND DEMONSTRATE WATER CONSERVATION DEVICES IN SELECTED HOMES WITHIN THE COMMUNITY PRIOR TO RECOMMENDING THEIR WIDESPREAD USE. SUCH EFFORTS ARE OFTEN LIMITED BY INADEQUATE MONITORING AND NONSTANDARD EVALUATIONS. THESE INDEPENDENT TESTS ARE DUPLICATIVE AND DELAY CONSERVATION PROGRAM IMPLEMENTATION, BUT THEY HAVE BEEN REQUIRED BECAUSE OF A LACK OF GOOD PERFORMANCE DATA FOR MANY WATER CONSERVATION DEVICES AND FIXTURES. SOME INFORMATION ON THE PERFORMANCE OF WATER CONSERVATION DEVICES IS NOW AVAILABLE AND IS DISCUSSED IN THIS ARTICLE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V73 N3

IRIS ACCESSION NUMBER: EW006210

PUBLICATION DATE: 80

TITLE: PUBLIC INVOLVEMENT MANUAL - INVOLVING THE PUBLIC IN WATER AND POWER RESOURCES DECISIONS.

PERSONAL AUTHOR: CREIGHTON, JAMES L.

DESCRIPTOR: *COMMUNICATIONS; *GUIDES; *INSTRUCTIONAL MATERIALS; *PLANNING; *POLICY; *PROGRAM DEVELOPMENT; *PUBLIC INVOLVEMENT; *PUBLIC PARTICIPATION; *RESOURCE MATERIALS; SKILL DEVELOPMENT; *UTILITIES; *WATER RESOURCES

DESCRIPTIVE NOTE: 333P. PRICE: $9.00

ABSTRACT: THIS MANUAL HAS BEEN PREPARED TO PROVIDE INFORMATION AND TRAINING IN THE BASIC PRINCIPLES AND SKILLS OF PUBLIC INVOLVEMENT, INCLUDING INTERPERSONAL COMMUNICATION, CONDUCTING MEETINGS AND WORKSHOPS, AND PUBLIC INVOLVEMENT STRATEGY AND POLICY DEVELOPMENT. IT INCLUDES MAJOR SECTIONS DEALING WITH THE GENERAL PRINCIPLES OF PUBLIC INVOLVEMENT, STRUCTURING PUBLIC INVOLVEMENT PROGRAMS, AND PUBLIC INVOLVEMENT TECHNIQUES. IT ALSO INCLUDES INFORMATION ON ASSESSING THE NEED FOR FORMULATING AND CARRYING OUT PUBLIC INVOLVEMENT, NOT AS A SEPARATE ACTIVITY, BUT AS AN INTEGRAL PART OF A PROGRAM.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006211

PUBLICATION DATE: DEC 74

TITLE: ENCOURAGEMENT OF PUBLIC FUNDING, INVOLVEMENT, AND SUPPORT OF URBAN WATER RESOURCES PROJECTS.

DESCRIPTOR: AGENCIES; CASE STUDIES; *COMMUNICATIONS; MANAGEMENT; PLANNING; *PROGRAM DEVELOPMENT; PROJECTS; PUBLIC INVOLVEMENT; *PUBLIC PARTICIPATION; *URBAN AREAS; *WATER RESOURCES

DESCRIPTIVE NOTE: 133P.

ABSTRACT: THIS REPORT PROVIDES THREE MAJOR SERVICES. FIRST, IT PROVIDES AN ELABORATION OF THE THEORY AND CONTEXT OF PUBLIC INVOLVEMENT FOR URBAN WATER AGENCIES, DEALING WITH SUCH ISSUES AS RELATIONSHIP OF PUBLIC INVOLVEMENT PROGRAMS TO AGENCY POWER BASES, FINDINGS OF FORMAL COMMUNICATIONS THEORY, AND CODIFICATION OF BASIC URBAN WATER AGENCY SITUATIONS. SECOND, IT SERVES AS A SOURCEBOOK FOR AGENCY MANAGERS CHARGED WITH CONDUCTING A PUBLIC INVOLVEMENT PROGRAM, CONTAINING INFORMATION RELATIVE TO ALTERNATIVE OBJECTIVES AND STRUCTURES, CHARACTERISTICS OF DIFFERENT MEDIA, AND FORMS OF ORGANIZATION OF PUBLIC INVOLVEMENT PROGRAMS. FINALLY, A DETAILED CASE STUDY OF AN EXTENSIVE TEST OF PUBLIC INVOLVEMENT TECHNIQUES IN A COMPLEX, REAL WORLD SITUATION IS PROVIDED.

AVAILABILITY: W.E. GATES 8 ASSOCIATES, INC., 4085 CHAINBRIDGE ROAD, SUITE 303, FAIRFAX, VA 22030

IRIS ACCESSION NUMBER: EW006239

PUBLICATION DATE: JUL 78

TITLE: CHLORINE INSTITUTE EMERGENCY KIT 'A' FOR 100-LB. 8 150-LB. CHLORINE CYLINDERS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHLORINE; *CHLORINE CYLINDERS; *EMERGENCY TRAINING; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LEAKS

DESCRIPTIVE NOTE: 11P.

ABSTRACT: LEAKS IN CHLORINE CYLINDERS RARELY OCCUR. HOWEVER, WHEN THEY DO OCCUR, PROMPT CORRECTIVE ACTION IS REQUIRED BY COMPETENT PERSONNEL WITH SPECIAL EQUIPMENT. THE CHLORINE INSTITUTE EMERGENCY KIT 'A' AND THIS INSTRUCTION BOOKLET ARE MADE AVAILABLE BY THE CHLORINE INSTITUTE, INC. IN THE BELIEF THAT THEY WILL BE HELPFUL IN HANDLING SUCH EMERGENCIES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006240

PUBLICATION DATE: NOV 73

TITLE: HOW TO USE THE CHLORINE INSTITUTE EMERGENCY KIT 'A' FOR 100 LB. 8 150 LB. CHLORINE CYLINDERS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ACCIDENT PREVENTION; *CHLORINE; *CHLORINE CYLINDERS; *EMERGENCY TRAINING; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; LEAKS

DESCRIPTIVE NOTE: 26P.

ABSTRACT: THIS BOOKLET CONTAINS THE SCRIPT FOR 49 SLIDES THAT DEMONSTRATE THE USE OF THE CHLORINE INSTITUTE EMERGENCY KIT A FOR 100 LB AND 150 LB CHLORINE CYLINDERS. AT AVERAGE SPEED, IT SHOULD TAKE NO MORE THAN 20 MINUTES TO SHOW THE 49 SLIDES IN THIS SET.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006241

PUBLICATION DATE: JUL 78

TITLE: CHLORINE INSTITUTE EMERGENCY KIT 'B' FOR CHLORINE TON CONTAINERS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHLORINE; *CHLORINE TON CONTAINERS; *EMERGENCY TRAINING; *INSTRUCTIONAL MATERIALS; LEAKS

DESCRIPTIVE NOTE: 11P.

ABSTRACT: LEAKS IN CHLORINE TON CONTAINERS RARELY OCCUR. HOWEVER, WHEN THEY DO OCCUR, PROMPT CORRECTIVE ACTION IS REQUIRED BY COMPETENT PERSONNEL WITH SPECIAL EQUIPMENT. THE CHLORINE INSTITUTE EMERGENCY KIT 'B' AND THIS INSTRUCTION BOOKLET ARE MADE AVAILABLE BY THE CHLORINE INSTITUTE, INC. IN THE BELIEF THAT THEY WILL BE HELPFUL IN HANDLING SUCH EMERGENCIES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006242

PUBLICATION DATE: 69

TITLE: HOW TO USE THE CHLORINE INSTITUTE EMERGENCY KIT 'B' FOR TON CONTAINERS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CHLORINE; *CHLORINE TON CONTAINERS; *EMERGENCY TRAINING; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LEAKS

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS BOOKLET CONTAINS THE SCRIPT FOR 53 SLIDES THAT DEMONSTRATE THE USE OF THE CHLORINE INSTITUTE EMERGENCY KIT 'B' FOR TON CONTAINERS. WHILE THESE SLIDES HAVE BEEN GIVEN A RAPID SHOWING IN HALF AN HOUR, IT IS RECOMMENDED THAT 50 MINUTES TO AN HOUR BE ALLOCATED FOR A FIRST SHOWING.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006243

PUBLICATION DATE: JUL 78

TITLE: CHLORINE INSTITUTE EMERGENCY KIT 'C' FOR CHLORINE TANK CARS & TANK TRUCKS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CHLORINE; *EMERGENCY TRAINING; EQUIPMENT; *INSTRUCTIONAL MATERIALS; LEAKS; *TANK CARS; *TANK TRUCKS

DESCRIPTIVE NOTE: 11P.

ABSTRACT: LEAKS IN CHLORINE TANK CARS AND TRUCKS RARELY OCCUR. HOWEVER, WHEN THEY DO OCCUR PROMPT CORRECTIVE ACTION IS REQUIRED BY COMPETENT PERSONNEL WITH SPECIAL EQUIPMENT. THE CHLORINE INSTITUTE EMERGENCY KIT "C" AND THIS INSTRUCTION BOOKLET ARE MADE AVAILABLE BY THE CHLORINE INSTITUTE INC., IN THE BELIEF THAT THEY WILL BE HELPFUL IN HANDLING SUCH EMERGENCIES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006244

PUBLICATION DATE: OCT 73

TITLE: HOW TO USE THE CHLORINE INSTITUTE EMERGENCY KIT 'C' FOR TANK CARS AND TANK TRUCKS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHLORINE; *EMERGENCY TRAINING; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LEAKS; *TANK CARS; *TANK TRUCKS

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS BOOKLET CONTAINS THE SCRIPT FOR 60 SLIDES THAT DEMONSTRATE THE USE OF THE CHLORINE INSTITUTE EMERGENCY KIT "C" FOR TANK CARS AND TANK TRUCKS. AT AVERAGE SPEED, IT SHOULD TAKE NO MORE THAN 20 MINUTES TO SHOW THE 60 SLIDES IN THIS SET.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW006245

TITLE: MAINTENANCE 1, 2, 3, 4, 5.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CENTRIFUGAL PUMPS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 60 MINUTES.

ABSTRACT: IN LESSON 1 THE MAJOR PARTS OF A CENTRIFUGAL PUMP ARE STUDIED. LESSON 2 CONTINUES WITH THE OPERATIONS OF ROTATION AND A WATER BLEED SYSTEM. LESSON 3 PRESENTS METHODS AND PROCEDURES OF PREVENTIVE MAINTENANCE. LESSON 4 SHOWS PROCEDURES AND METHODS OF LUBRICATION. LESSON 5 SHOWS STEP-BY-STEP PROCEDURES FOR BREAKING DOWN, INSPECTING, REPAIRING AND REASSEMBLING A CENTRIFUGAL PUMP.

AVAILABILITY: NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006246

TITLE: MAINTENANCE 6, 7.

DESCRIPTOR: *AUDIOVISUAL AIDS; *GATE VALVES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *VALVES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 41 MINUTES.

ABSTRACT: IN LESSON 6 THE OPERATOR LEARNS THE MAJOR PARTS OF A GATE VALVE AND THE OPERATION AND MAINTENANCE OF THE GATE VALVE; LESSON 7 CONTINUES WITH VALVES, SHOWING THE USE, OPERATION AND MAINTENANCE OF A PLUG VALVE, REGULATOR VALVE AND SPECIAL HIGH PRESSURE VALVE.

AVAILABILITY: NATIONAL TECHNOLOGY AND OPERATIONAL TRAINING CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006247

TITLE: MICROBIOLOGY TESTING 5, 6 AND 12.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BACTERIA; *COLIFORM BACTERIA; *INSTRUCTIONAL MATERIALS; *INCUBATION; *LABORATORY PROCEDURES; *MICROBIOLOGY; *POST SECONDARY EDUCATION; *SAMPLING; *WATER QUALITY

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 40 MINUTES.

ABSTRACT: LESSON 5 SHOWS THE PROPER METHODS OF SAMPLE TAKING IN A STREAM OR A HOUSEHOLD TAP. LESSON 6 CONSIDERS SAMPLE SIZE, DILUTION, AND THE ASSOCIATED MATHEMATICS OF EACH SITUATION. LESSON 12 TEACHES PROCEDURES OF COLIFORM INCUBATION DEMONSTRATING A WARM AIR INCUBATOR, WATER INCUBATOR AND COLIFORM INCUBATION TECHNIQUES.

AVAILABILITY: NATIONAL TECHNOLOGY AND OPERATIONAL TRAINING CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006248

TITLE: MICROBIOLOGY TESTING 4, 7 & 8.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; BACTERIA; *COLIFORM BACTERIA; COLONY COUNTING; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MICROBIOLOGY; *QUALITY CONTROL; *STERILE TECHNIQUES; VIDEOCASSETTES; *WATER QUALITY

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 52 MINUTES.

ABSTRACT: LESSON 4 SHOWS THE PREPARATION OF THE M-ENDO MF BROTH FOR THE COLIFORM TEST. LESSON 7 SHOWS THE PROPER PROCEDURE TO PERFORM THE MF TOTAL COLIFORM TEST USING STERILE TECHNIQUES. LESSON 8 PRESENTS COLONY COUNTING OF TOTAL COLIFORM.

AVAILABILITY: NATIONAL TECHNOLOGY AND OPERATIONAL TRAINING CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006249

TITLE: MICROBIOLOGY TESTING 9, 10, 11.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *BACTERIA; COLIFORM BACTERIA; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MICROBIOLOGY; *POST SECONDARY EDUCATION; *WATER QUALITY

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 38 MINUTES.

ABSTRACT: LESSON 9 DEMONSTRATES THE PROPER TECHNIQUES FOR PREPARING THE MFC BROTH AND ROSOLIC ACID SOLUTION FOR THE FECAL COLIFORM TEST. LESSON 10 SHOWS HOW TO PERFORM THE TEST FOR FECAL COLIFORM. LESSON 11 PRESENTS THE PROPER PROCEDURES FOR COUNTING COLONIES.

AVAILABILITY: NATIONAL TECHNOLOGY AND OPERATIONAL TRAINING CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006250

TITLE: FLUORIDATION 1, 2, 3, 4, 5.

DESCRIPTOR: *AUDIOVISUAL AIDS; *DRINKING WATER; *FLUORIDATION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *QUALITY CONTROL; *WATER TREATMENT; *WATER SUPPLY; VIDEOCASSETTES; *WATER QUALITY; WATER

DESCRIPTIVE NOTE: 3/4" U-MATIC VIDEOCASSETTE, COLOR, 42 MINUTES.

ABSTRACT: LESSON 1 GIVES THE HISTORY AND GENERAL INFORMATION REGARDING FLUORIDATION OF WATER SUPPLIES. LESSON 2 CONSIDERS MAJOR COMPOUNDS USED IN FLUORIDATION AND THE CHARACTERISTICS OF EACH. LESSON 3 PRESENTS THE MAJOR PARTS, OPERATION AND MAINTENANCE OF AN UPFLOW SATURATOR; LESSON 6 DOES THE SAME WITH THE DOWNFLOW SATURATOR. LESSON 5 CONSIDERS THE GENERAL SAFETY AND PROTECTION OF HANDLING FLUORIDE COMPOUNDS.

AVAILABILITY: NATIONAL TECHNOLOGY AND OPERATIONAL TRAINING CENTER (NTOTC), 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006265

PUBLICATION DATE: 78

TITLE: URBAN STORM DRAINAGE.

PERSONAL AUTHOR: HELLIWELL, P. R.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; COST EFFECTIVENESS; *DRAINAGE; HYDROLOGY; METEOROLOGY; *MODELLING; *RESEARCH;

*STORMWATER; *SURFACE RUNOFF; *URBAN ENVIRONMENT; URBAN STUDIES; WATER QUALITY

DESCRIPTIVE NOTE: 728P. PRICE: $64.95

ABSTRACT: THIS BOOK CONTAINS 57 PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCE ON URBAN STORM DRAINAGE HELD IN APRIL, 1978 AT THE UNIVERSITY OF SOUTHHAMPTON. THE PAPERS COVER MODELLING OF URBAN RUNOFF PROCESSES, METEOROLOGICAL CONSIDERATIONS, DATA COLLECTION AND HANDLING, OPERATION OF DRAINAGE SYSTEMS, WATER QUALITY PROBLEMS, AND COST BENEFITS. U.K., NORTH AMERICAN, AND EUROPEAN DEVELOPMENTS ARE WELL REPRESENTED.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW006267

PUBLICATION DATE: JAN 81

TITLE: SANITARY LANDFILLS - 1978-1980.

DESCRIPTOR: *DESIGN; *ECONOMICS; *LANDFILLS; *LITERATURE REVIEWS; LAND RECLAMATION; MANAGEMENT; *POLLUTION CONTROL; *PUBLIC HEALTH; *SANITARY LANDFILLS; *SITE SELECTION; *SEWAGE SLUDGE; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 87P. PB81-802787

ABSTRACT: THE REPORTS CITED RELATE TO SANITARY LANDFILL CRITERIA DESIGN, SITE SELECTION, GUIDELINES, URBAN AND RURAL LOCATIONS, AND LAND RECLAMATION. RESEARCH ON DISPOSAL OF MUNICIPAL REFUSE, DREDGE SPOIL, SEWAGE SLUDGE, AND SLUDGES FROM POLLUTION CONTROL IN POWER PLANTS IN LANDFILLS IS COVERED. STUDIES ON ECONOMICS, GOVERNMENT POLICIES, MANAGEMENT, AND PUBLIC HEALTH ARE INCLUDED. GROUND WATER POLLUTION, LAND RECLAMATION, GASEOUS EMISSIONS, LEACHATE ANALYSES, LANDFILL LINERS, AESTHETICS, AND MONITORING ARE DISCUSSED. LAND DISPOSAL OF HAZARDOUS MATERIALS IS EXCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006268

PUBLICATION DATE: MAR 78

TITLE: BIOASSAY FOR TOXIC AND HAZARDOUS MATERIALS - TRAINING MANUAL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOASSAYS; *BIOMONITORING; ECOLOGY; EQUIPMENT; FACILITIES; *HAZARDOUS MATERIALS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; QUALITY CRITERIA; *TOXIC SUBSTANCES; *WATER QUALITY; *WATER POLLUTION

ABSTRACT: THIS TRAINING MANUAL DISCUSSES THE APPLICATION OF BIOASSAY AND BIOMONITORING TECHNIQUES IN EVALUATING WATER QUALITY. IT INCLUDES INFORMATION ON FACILITIES, EQUIPMENT, PROCEDURES, TOXICITY TESTING, STATISTICAL DATA ANALYSIS, AND ASPECTS OF THE AQUATIC ECOSYSTEM WHICH SHOULD BE CONSIDERED WHEN PLANNING WATER QUALITY SURVEYS.

AVAILABILITY: US ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF WATER PROGRAM OPERATIONS, NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 WEST ST. CLAIR, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW006269

PUBLICATION DATE: NOV 79

TITLE: ECONOMIC IMPACT ANALYSIS OF PROPOSED EFFLUENT LIMITATIONS GUIDELINES, NEW SOURCE PERFORMANCE STANDARDS AND PRE-TREATMENT STANDARDS FOR THE GUM AND WOOD CHEMICALS MANUFACTURING POINT SOURCE CATEGORY.

DESCRIPTOR: *CHEMICALS; *ECONOMIC ANALYSES; ECONOMICS; *EFFLUENTS; *GUIDELINES; *INDUSTRIAL WASTES; *PRETREATMENT STANDARDS; *POINT SOURCE POLLUTION; *SOURCE PERFORMANCE STANDARDS; *STANDARDS; *WATER POLLUTION CONTROL; *WOOD INDUSTRY

DESCRIPTIVE NOTE: 129P.

ABSTRACT: THIS DOCUMENT IS A STUDY PREPARED FOR THE OFFICE OF WATER PLANNING AND STANDARDS OF THE ENVIRONMENTAL PROTECTION AGENCY. THE PURPOSE OF THIS STUDY WAS TO ANALYZE THE ECONOMIC IMPACT WHICH COULD RESULT FROM THE APPLICATION OF EFFLUENT STANDARDS AND LIMITATIONS ISSUED UNDER SECTIONS 301, 304, 306, AND 307 OF THE CLEAN WATER ACT TO THE GUM AND WOOD CHEMICAL MANUFACTURING INDUSTRY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006270

PUBLICATION DATE: DEC 80

TITLE: ECONOMIC IMPACT ANALYSIS OF PROPOSED EFFLUENT LIMITATIONS GUIDELINES, NEW SOURCE PERFORMANCE STANDARDS AND PRETREATMENT STANDARDS FOR THE PULP, PAPER AND PAPERBOARD MILLS POINT SOURCE CATEGORY - VOLUME 1.

DESCRIPTOR: *ECONOMIC ANALYSES; ECONOMICS; *EFFLUENTS; *GUIDELINES; *IMPACT ANALYSIS; *INDUSTRIAL WASTES; *PRETREATMENT STANDARDS; *PULP MILLS; *PAPER MILLS; *PAPERBOARD MILLS; *POINT SOURCE POLLUTION; *SOURCE PERFORMANCE STANDARDS; *STANDARDS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 302P.

ABSTRACT: THIS DOCUMENT IS A STUDY PREPARED FOR THE OFFICE OF WATER REGULATIONS AND STANDARDS OF THE ENVIRONMENTAL PROTECTION AGENCY. THE PURPOSE OF THE STUDY WAS TO ANALYZE THE ECONOMIC IMPACT WHICH COULD RESULT FROM THE APPLICATION OF EFFLUENT STANDARDS AND LIMITATIONS ISSUED UNDER SECTIONS 301,304,306 AND 307 OF THE CLEAN WATER ACT TO THE PULP, PAPER AND PAPERBOARD INDUSTRY. BUILDER'S PAPER AND ROOFING

FELT MANUFACTURING ARE INCLUDED.
AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006271

PUBLICATION DATE: DEC 80

TITLE: ECONOMIC IMPACT ANALYSIS OF PROPOSED EFFLUENT LIMITATIONS GUIDELINES, NEW SOURCE PERFORMANCE STANDARDS, AND PRETREATMENT STANDARDS FOR THE COAL MINING POINT SOURCE CATEGORY. VOLUME 1 - ECONOMIC IMPACT ANALYSIS.

DESCRIPTOR: *COAL MINING INDUSTRY; *ECONOMIC ANALYSES; *ECONOMICS; *EFFLUENTS; GUIDELINES; *INDUSTRIAL WASTES; *PRETREATMENT STANDARDS; *POINT SOURCE POLLUTION; *SOURCE PERFORMANCE STANDARDS; *STANDARDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 65P.

ABSTRACT: THIS DOCUMENT IS A STUDY PREPARED FOR THE OFFICE OF WATER PLANNING AND STANDARDS OF THE ENVIRONMENTAL PROTECTION AGENCY. THE PURPOSE OF THE STUDY IS TO ANALYZE THE ECONOMIC IMPACT WHICH COULD RESULT FROM THE APPLICATION OF EFFLUENT STANDARDS AND LIMITATIONS ISSUED UNDER SECTIONS 301, 304, 306, AND 307 OF THE CLEAN WATER ACT TO THE COAL MINING INDUSTRY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006273

PUBLICATION DATE: SEP 80

TITLE: DEVELOPMENT DOCUMENT FOR EFFLUENT LIMITATIONS GUIDELINES AND STANDARDS FOR THE STEAM ELECTRIC POINT SOURCE CATEGORY.

PERSONAL AUTHOR: COSTLE, DOUGLAS M.; AND OTHERS

DESCRIPTOR: *EFFLUENTS; *GUIDELINES; *INDUSTRIAL WASTES; *POINT SOURCE POLLUTION; *STANDARDS; *STEAM ELECTRIC INDUSTRY; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 598P.

ABSTRACT: THIS DOCUMENT PROVIDES A BASIS FOR THE REVISION OF EFFLUENT LIMITATIONS GUIDELINES FOR THE STEAM ELECTRIC POWER INDUSTRY. IT FORMS THE TECHNICAL BASIS FOR THE REVISED STEAM ELECTRIC POWER GENERATING EFFLUENT LIMITATIONS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006275
PUBLICATION DATE: AUG 79

TITLE: DEVELOPMENT DOCUMENT FOR EXISTING SOURCE PRETREATMENT STANDARDS FOR THE ELECTROPLATING, POINT SOURCE CATEGORY.

PERSONAL AUTHOR: SCHAFFER, ROBERT B.; AND OTHERS

DESCRIPTOR: CLEAN WATER ACT; *ELECTROPLATING; *INDUSTRIAL WASTES; *PRETREATMENT STANDARDS; *POINT SOURCE POLLUTION; *STANDARDS; *WASTEWATER TREATMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 526P.

ABSTRACT: THIS REPORT PRESENTS THE FINDINGS OF AN EXTENSIVE STUDY OF ELECTROPLATING PROCESSES FOR THE PURPOSE OF DEVELOPING PRETREATMENT STANDARDS FOR EXISTING POINT SOURCES DISCHARGING TO PUBLICLY OWNED TREATMENT WORKS TO IMPLEMENT SECTION 307(6) OF THE CLEAN WATER ACT, AS AMENDED. THE ACT REQUIRES THE ESTABLISHMENT OF PRETREATMENT STANDARDS FOR POLLUTANTS INTRODUCED INTO PUBLICLY OWNED TREATMENT WORKS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW006287

PUBLICATION DATE: APR 80

TITLE: PUBLICATIONS ... A QUARTERLY GUIDE - SECOND QUARTERLY SUPPLEMENT.

DESCRIPTOR: *AIR POLLUTION; BIBLIOGRAPHIES; *ENVIRONMENTAL PROTECTION AGENCY; *GOVERNMENT PUBLICATIONS; NOISE POLLUTION; *POLLUTION; *PESTICIDES; RADIATION; *SOLID WASTES; *TOXIC SUBSTANCES; *WATER POLLUTION

DESCRIPTIVE NOTE: 59P.

ABSTRACT: THIS PUBLICATION IS THE SECOND QUARTERLY SUPPLEMENT TO THE BASIC DOCUMENT "EPA PUBLICATIONS ... A QUARTERLY GUIDE" DATED JANUARY - DECEMBER 1979. IT CONTAINS ADDITIONS/DELETIONS TO THE LIST OF GENERAL PUBLICATIONS AND NEW TECHNICAL PUBLICATIONS THAT ARE NOW AVAILABLE FROM NTIS. THIS PUBLICATION ALSO CONTAINS AN ABBREVIATED BIBLIOGRAPHIC CITATION FOR REPORTS GENERATED BY EPA AND ITS CONTRACTORS AND GRANTEES. THE CITATIONS ARE ARRANGED BY SECTIONS - GENERAL AND TECHNICAL AND THEN BY CATEGORIES: AIR POLLUTION, NOISE POLLUTION, PESTICIDES, RADIATION, SOLID WASTE, TOXIC SUBSTANCES, AND WATER POLLUTION. WITHIN EACH CATEGORY THE CITATIONS APPEAR IN ALPHABETICAL ORDER BY TITLE. THERE IS A SINGLE INDEX BY SUBJECT.

AVAILABILITY: US ENVIRONMENTAL PROTECTION AGENCY, PRINTING MANAGEMENT OFFICE, PM-215, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW006288
PUBLICATION DATE: 80

TITLE: WASTEWATER TREATMENT AND RESOURCE RECOVERY - REPORT OF A WORKSHOP ON HIGH-RATE ALGAE PONDS. SINGAPORE, 27-29 FEBRUARY 1980.

DESCRIPTOR: *ALGAE; *CONFERENCE REPORTS; *CASE STUDIES; NUTRIENTS; POLLUTION; *RESOURCE RECOVERY; *RECYCLING; *STABILIZATION PONDS; *WATER POLLUTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THIS PUBLICATION IS A REPORT OF A WORKSHOP ON HIGH-RATE ALGAE PONDS HELD IN SINGAPORE IN FEBRUARY, 1980. THE REPORT CONTAINS AN OVERVIEW OF WASTEWATER TREATMENT AND RESOURCE RECOVERY USING HIGH RATE ALGAE PONDS, ABSTRACTS OF PRESENTED PAPERS, AND A LIST OF PARTICIPANTS IN THE WORKSHOP. AN ECONOMIC ANALYSIS OF HIGH RATE ALGAE PONDS IS ALSO INCLUDED.

AVAILABILITY: INTERNATIONAL DEVELOPMENT RESEARCH CENTRE, BOX 8500, OTTAWA, ONTARIO K1G 3H9, CANADA

IRIS ACCESSION NUMBER: EW006289

PUBLICATION DATE: 81

TITLE: FUNDAMENTALS OF INDUSTRIAL TOXICOLOGY.
PERSONAL AUTHOR: ANDERSON, KIM; SCOTT, RONALD

DESCRIPTOR: CARCINOGENS; *INSTRUCTIONAL MATERIALS; *INDUSTRY; *POST SECONDARY EDUCATION; PHYSIOLOGY; PATHOGENS; POLLUTION; SAFETY; *TOXICOLOGY

DESCRIPTIVE NOTE: 120P. PRICE: $14.95

ABSTRACT: THIS TEXTBOOK INTRODUCES THE BASIC CONCEPTS OF INDUSTRIAL TOXICOLOGY IN A COMPACT FASHION FOR PEOPLE WHOSE BACKGROUND DID NOT PREPARE THEM IN THIS AREA, AND SERVES AS A REFERENCE FOR THOSE ALREADY IN THE INDUSTRY. THE TEXTBOOK DIVIDES TOXICOLOGY INTO ITS COMPONENT PARTS AND EXPLORES THE SIGNIFICANT INTERRELATIONSHIPS OF THESE PARTS. CONTAINED ARE THE FOLLOWING CHAPTERS: DEFINITION AND SCOPE OF INDUSTRIAL TOXICOLOGY; HISTORICAL REVIEW OF INDUSTRIAL TOXICOLOGY; ROLE OF INDUSTRIAL TOXICOLOGY; PHYSIOLOGY OF TOXICANT-AFFECTED SYSTEMS; MODE OF ACTION OF TOXICANTS; DOSE-RESPONSE RELATIONSHIP; CLASSIFICATION AND TYPES OF EXPOSURE; IDENTIFICATION OF CONTAMINANTS; BASIS OF AGENCIES AND RELATED INFORMATION; AND SOURCES OF INFORMATION ON INDUSTRIAL TOXICOLOGY.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., BUTTERWORTH PUBLISHERS, INC., 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW006290
PUBLICATION DATE: JUL 80

TITLE: INTERAGENCY REGULATORY LIAISON GROUP - REGULATORY REPORTER, VOLUME II, ISSUE I.

PERSONAL AUTHOR: HAYMAN, MARGARET F.; BERGMAN, RITA F.

DESCRIPTOR: *CHEMICALS; *COOPERATIVE PLANNING; ENVIRONMENT; *HAZARDOUS MATERIALS; INDUSTRIAL WASTES; *INTERAGENCY COOPERATION; *POLLUTION; *REGULATIONS; WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 125P.

ABSTRACT: THIS PUBLICATION IS THE SECOND UPDATE OF THE DEVELOPMENT PLANS ON 24 HAZARDOUS SUBSTANCES SET UP ON DEC 1, 1978 BY THE INTERAGENCY REGULATORY LIAISON GROUP. THE PUBLICATION UPDATES PROGRESS OF INTERAGENCY EFFORTS ON THE 24 CHEMICAL TASK GROUPS, IDENTIFIES MAJOR PROBLEMS AND INCONSISTENCIES, PROVIDES NEW MILESTONES FOR MAJOR ACCOMPLISHMENTS, AND PROVIDES A CALENDAR OF UPCOMING EVENTS. THIS REPORT ALSO INCLUDES A DISCUSSION OF THE SPECIFIC INTEGRATION EFFORTS OF THE TASK GROUP THEMSELVES. FOR EACH CHEMICAL TASK GROUP, THIS REPORT CONTAINS THE FOLLOWING INFORMATION: BACKGROUND INFORMATION, SCHEDULE OF ACTIONS, PRINCIPAL ACTIONS AND CURRENT STATUS, AND CURRENT AGENCY TECHNICAL CONTACTS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW006291

TITLE: INSTRUCTOR DEVELOPMENT - TRAINING THE TRAINERS.

PERSONAL AUTHOR: ABEL, RUSSELL; AND OTHERS

DESCRIPTOR: COUNSELING; *EDUCATIONAL PROGRAMS; GUIDES; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL MEDIA; INSTRUCTION; MANUALS; *POST SECONDARY EDUCATION; *TEACHER EDUCATION; *TEACHING GUIDES; *TRAINING; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 303 PAGE MANUAL AND 5 CASSETTE TAPES.

ABSTRACT: THIS INSTRUCTOR'S MANUAL, IN ADDITION TO THE STUDENT MATERIALS, CONTAINS DIRECTIONS AND INFORMATION TO ASSIST IN THE IMPLEMENTATION OF EPA'S ADVANCED INSTRUCTOR TECHNOLOGY COURSE. THE PURPOSE OF THIS COURSE IS TO PROVIDE FOR PERSONS WHO ARE INVOLVED IN ANY TYPE OF TEACHING PROGRAM SOME BASIC KNOWLEDGE AND TOOLS WHICH WILL ASSIST THEM IN BECOMING MORE EFFECTIVE TEACHERS. SECTIONS IN THIS MANUAL INCLUDE: HUMAN MOTIVATION, LEARNING, AND BEHAVIOR; COUNSELING THEORY AND PRACTICE; INSTRUCTIONAL DESIGN; AND EDUCATIONAL MEDIA. FIVE CASSETTES ACCOMPANY THE TEXT.

AVAILABILITY: OFFICE OF WATER PROGRAMS OPERATIONS, US ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW006309

PUBLICATION DATE: APR 81

TITLE: THOUGHTS ON EQUIPMENT MANUALS AND EQUIPMENT INSTALLATION.

PERSONAL AUTHOR: METCALF, RICHARD R.

DESCRIPTOR: *EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; *MANUALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 50-52, 84-85P.

ABSTRACT: THIS ARTICLE ON EQUIPMENT MANUALS FOR WASTEWATER TREATMENT PLANTS ADDRESSES PROBLEMS INHERENT IN THEM AND OFFERS CORRECTIVE MEASURES. A DESIGN FOR AN EQUIPMENT MANUAL IS INCLUDED WHICH DETAILS INSTALLATION, OPERATION, AND MAINTENANCE. SUGGESTIONS FOR ORGANIZATION OF MANUALS AT THE PLANT, WHO SHOULD RECEIVE MANUALS, EQUIPMENT INSTALLATION, AND WARRANTIES ARE GIVEN. THE ARTICLE CONCLUDES WITH A SERIES OF QUESTIONS THE MANUFACTURER, DESIGNER, AND CONTRACTOR SHOULD ASK EACH OTHER AND THEMSELVES TO INSURE CORRECT USAGE OF EQUIPMENT.

AVAILABILITY: PUBLIC WORKS JOURNAL, V112 N4

IRIS ACCESSION NUMBER: EW006310

PUBLICATION DATE: APR 81

TITLE: PROVING THE BENEFITS OF LAND DISPOSAL OF SLUDGE.

PERSONAL AUTHOR: QUINN, THOMAS; PITTS, JONATHAN

DESCRIPTOR: *COST EFFECTIVENESS; HEAVY METALS; *LAND APPLICATION; POLLUTION; POLLUTION CONTROL; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 60-63P.

ABSTRACT: THIS ARTICLE DETAILS THE RECENT SURGE IN POPULARITY OF LAND APPLICATION OF DOMESTIC SLUDGE. SLUDGE CONDITIONING, EQUIPMENT REQUIRED, PROCEDURE AND FREQUENCY OF MONITORING POLLUTANTS, TYPES OF CROPS PLANTED AND ANALYSIS OF CROPS AND SOILS FOR THE NORTHWEST QUADRANT WASTEWATER TREATMENT FACILITY NEAR ROCHESTER, NEW YORK ARE COVERED. A DETAILED COMPARISON OF COSTS OF OTHER METHODS OF SLUDGE DISPOSAL IS INCLUDED.

AVAILABILITY: PUBLIC WORKS JOURNAL, V112 N4

IRIS ACCESSION NUMBER: EW006311

PUBLICATION DATE: APR 81

TITLE: A COST/EFFICIENCY STANDARD FOR EVALUATING GRANULAR ACTIVATED CARBON.

DESCRIPTOR: *ACTIVATED CARBON; ADSORPTION; *COST EFFECTIVENESS; *DRINKING WATER; ECONOMICS; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 73-74P.

ABSTRACT: THIS ARTICLE DESCRIBES THE DEVELOPMENT AND USE OF A TEST TO DETERMINE THE COST/EFFICIENCY OF DIFFERENT TYPES OF GRANULAR ACTIVATED CARBON USED IN WATER TREATMENT PLANTS.

AVAILABILITY: PUBLIC WORKS JOURNAL, V112 N4

IRIS ACCESSION NUMBER: EW006318

PUBLICATION DATE: JUN 80

TITLE: DIATOMACEOUS EARTH (JUN 76 - MAY 80) CITATIONS FROM THE ENERGY DATA BASE.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *DIATOMACEOUS EARTH; *FILTRATION; *INDUSTRIAL WASTES; POLLUTION; *RESEARCH REVIEWS; RECYCLING; SLUDGE; *WASTEWATER TREATMENT; WATER POLLUTION; WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 45P. PB80-85284

ABSTRACT: THIS RETROSPECTIVE BIBLIOGRAPHY CONTAINS 30 REPORTS CONCERNING THE APPLICATIONS OR USES OF DIATOMACEOUS EARTH, ESPECIALLY FOR FILTRATION FOR THE PERIOD JUNE 1976 TO MAY 1980.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006319

PUBLICATION DATE: JUN 80

TITLE: DIATOMACEOUS EARTH (JUN 70 - JUN 80) CITATIONS FROM THE NTIS DATA BASE.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *DIATOMACEOUS EARTH; *FILTRATION; *INDUSTRIAL WASTES; LAKE SUPERIOR; POLLUTION; *RESEARCH REVIEWS; RECYCLING; SUSPENDED SOLIDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 43P. PB80-853815

ABSTRACT: THIS RETROSPECTIVE BIBLIOGRAPHY CONTAINS 34 ABSTRACTS CONCERNING THE APPLICATIONS OR USES OF DIATOMACEOUS EARTH, ESPECIALLY FOR FILTRATION. THIS PUBLICATION COVERS THE PERIOD JUNE 1970 TO JUNE 1980.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006321
PUBLICATION DATE: JUN 80

TITLE: TREATMENT OF EFFLUENT STREAM (JUNE 70 - JUNE 80). (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *EFFLUENTS; HEAVY METALS; *INDUSTRIAL WASTES; *POLLUTION; POLLUTION CONTROL; *RESEARCH REVIEWS; RECYCLING; *SLUDGE; *WATER TREATMENT; *WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 95P. PB80-858541

ABSTRACT: THIS RETROSPECTIVE BIBLIOGRAPHY CONTAINS 89 ABSTRACTS OF REPORTS ON THE TREATMENT OF INDUSTRIAL (EXCEPT MINING) EFFLUENT STREAMS FOR POLLUTION CONTROL, PURIFICATION, AND WASTE DISPOSAL AS WELL AS FOR REMOVAL, RECLAMATION, AND RECYCLING OF VARIOUS STREAM COMPONENTS FOR THE PERIOD JUNE 1970 TO JUNE 1980.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006326

PUBLICATION DATE: JUN 80

TITLE: CHROMATOGRAPHY FOR POLLUTION AND TOXICOLOGICAL ANALYSIS, (JUN 70 - JUN 80), (CITATIONS FROM THE ENGINEERING DATA BASE).
DESCRIPTOR: *ANALYTICAL TECHNIQUES; AIR POLLUTION; *BIBLIOGRAPHIES; *CHROMATOGRAPHY; *LABORATORY PROCEDURES; POLLUTANTS; *RESEARCH REVIEWS; *TOXIC SUBSTANCES; *WATER POLLUTION; WASTES

DESCRIPTIVE NOTE: 200P. PB80-858400

ABSTRACT: THIS BIBLIOGRAPHY CITES REPORTS WHICH DEAL WITH THE USE OF CHROMATOGRAPHY (MAINLY GAS CHROMATOGRAPHY AND HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) IN THE ANALYSIS OF AIR AND WATER POLLUTANTS, WASTES AND TOXIC MATERIALS. CONTAINS 200 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006327

PUBLICATION DATE: JUN 80

TITLE: CHROMATOGRAPHY FOR POLLUTION AND TOXICOLOGICAL ANALYSIS, (JUL 78 - MAY 80), (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AIR POLLUTION; *BIBLIOGRAPHIES; *CHROMATOGRAPHY; *LABORATORY PROCEDURES; POLLUTANTS; *RESEARCH REVIEWS; *TOXIC SUBSTANCES; *TOXICOLOGY; *WATER POLLUTION; *WASTES

DESCRIPTIVE NOTE: 197P. PB80-858657
ABSTRACT: THIS BIBLIOGRAPHY CITES REPORTS DEALING WITH THE USE OF CHROMATOGRAPHY (MAINLY GAS CHROMATOGRAPHY AND HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) IN THE ANALYSIS OF AIR AND WATER POLLUTANTS, WASTES AND TOXIC MATERIALS. CONTAINS 197 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006328

PUBLICATION DATE: JUN 80

TITLE: CHROMATOGRAPHY FOR POLLUTION AND TOXICOLOGICAL ANALYSIS, (NOV 76 - JUN 80), (CITATIONS FROM THE NTIS DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AIR POLLUTION; *BIBLIOGRAPHIES; *CHROMATOGRAPHY; *LABORATORY PROCEDURES; *POLLUTION; *RESEARCH REVIEWS; *TOXIC SUBSTANCES; *TOXICOLOGY; *WATER POLLUTION

DESCRIPTIVE NOTE: 194P. PB80-858640

ABSTRACT: THIS BIBLIOGRAPHY CITES REPORTS DEALING WITH THE USE OF CHROMATOGRAPHY (MAINLY GAS CHROMATOGRAPHY AND HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) IN THE ANALYSIS OF AIR AND WATER POLLUTANTS, WASTES AND TOXIC MATERIALS. CONTAINS 194 CITATIONS.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006330

PUBLICATION DATE: JUN 80

TITLE: POLLUTION DETECTION (JUN 70 - MAY 80), (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AIR POLLUTION; *BIBLIOGRAPHIES; *EQUIPMENT; *LABORATORY PROCEDURES; *MEASUREMENT; *OIL POLLUTION; *POLLUTANTS; *RESEARCH REVIEWS; *SAMPLING; *WATER POLLUTION

DESCRIPTIVE NOTE: 46P. PB80-857980

ABSTRACT: RESEARCH STUDIES AND ARTICLES CITED IN THIS BIBLIOGRAPHY DESCRIBE THE METHODS, EQUIPMENT, AND TECHNOLOGY USED IN THE DETECTION AND MEASUREMENT OF VARIOUS TYPES OF ENVIRONMENTAL POLLUTANTS. CONTAINS 46 CITATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006332
PUBLICATION DATE: OCT 80

TITLE: SEWAGE AND ORGANIC WASTE IRRIGATION. NOVEMBER, 1979-SEPTEMBER, 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

PERSONAL AUTHOR: BROWN, ROBENA J.

DESCRIPTOR: *BIBLIOGRAPHIES; FERTILIZERS; *GROUNDWATER; IRRIGATION; *IRRIGATION SYSTEMS; *LAND APPLICATION; NUTRIENTS; *SEWAGE; SLUDGE; *SLUDGE DISPOSAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 71P. PB80-816127

ABSTRACT: CITATIONS FROM WORLDWIDE RESEARCH COVER ASPECTS OF USING SEWAGE AND ORGANIC FORM WASTES FOR IRRIGATION, FERTILIZATION, OR GROUND WATER RECHARGE. TOPICS INCLUDE DESIGN AND COSTS OF IRRIGATION SYSTEMS FOR WASTEWATER, ALLEVIATING SLUDGE DISPOSAL PROBLEMS, NUTRIENT LEVELS IN GROUND WATER AFTER SEWAGE IRRIGATION, CONSTRAINTS, AND FEASIBILITY STUDIES. THIS UPDATED BIBLIOGRAPHY CONTAINS 71 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006333

PUBLICATION DATE: OCT 80

TITLE: SEWAGE AND ORGANIC WASTE IRRIGATION. JULY, 1977-SEPTEMBER, 1980 (CITATIONS FROM THE NTIS DATA BASE).

PERSONAL AUTHOR: BROWN, ROBENA J.

DESCRIPTOR: *BIBLIOGRAPHIES; *FERTILIZERS; *GROUNDWATER; *IRRIGATION; *LAND APPLICATION; *SEWAGE; *SLUDGE DISPOSAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 150P. PB80-816101

ABSTRACT: VARIOUS ASPECTS OF USING SEWAGE AND ORGANIC FORM WASTES FOR IRRIGATION, FERTILIZATION, OR GROUND WATER RECHARGE ARE PRESENTED. TOPICS COVERED INCLUDE FEASIBILITY STUDIES, WATER RECLAMATION IN ARID REGIONS, ALLEVIATING SLUDGE DISPOSAL PROBLEMS, AND ECOLOGICAL EFFECTS. THIS UPDATED BIBLIOGRAPHY CONTAINS 150 CITATIONS, 43 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006334
PUBLICATION DATE: OCT 80

TITLE: SEWAGE AND ORGANIC WASTE IRRIGATION. 1970-OCTOBER, 1979, (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

PERSONAL AUTHOR: BROWN, ROBENA J.

DESCRIPTOR: *BIBLIOGRAPHIES; FERTILIZERS; GROUNDWATER; *IRRIGATION; *IRRIGATION SYSTEMS; *LAND APPLICATION; NUTRIENTS; *SEWAGE; *SLUDGE DISPOSAL; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 228P. PB80-816119

ABSTRACT: CITATIONS FROM WORLDWIDE RESEARCH COVER ASPECTS OF USING SEWAGE AND ORGANIC FORMS OF WASTE FOR IRRIGATION, FERTILIZATION, OR GROUND WATER RECHARGE. TOPICS INCLUDE DESIGN AND COSTS OF IRRIGATION SYSTEMS FOR WASTE WATER, ALLEVIATING SLUDGE DISPOSAL PROBLEMS, NUTRIENT LEVELS IN GROUND WATER AFTER SEWAGE IRRIGATION, CONSTRAINTS, AND FEASIBILITY STUDIES. THIS UPDATED BIBLIOGRAPHY CONTAINS 228 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5825 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006337

PUBLICATION DATE: 80

TITLE: MANAGEMENT OF UNCONTROLLED HAZARDOUS WASTE SITES.

DESCRIPTOR: *CASE STUDIES; *CONFERENCE REPORTS; *DISPOSAL SITES; GROUNDWATER; *HAZARDOUS WASTES; HEALTH; INTERAGENCY COOPERATION; *LAND USE; *MANAGEMENT; *POLLUTION; REMOTE SENSING; SAFETY; *SITE SELECTION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 285P. PRICE: $30.00

ABSTRACT: THIS DOCUMENT IS A REPORT ON A CONFERENCE DEALING WITH THE PROBLEM OF INADEQUATE DISPOSAL OF HAZARDOUS WASTES HELD IN WASHINGTON, DC, DURING OCTOBER, 1980. PAPERS PRESENTED FALL INTO NINE CATEGORIES: BASIC CONSIDERATIONS; SITE ASSESSMENT; SUBSURFACE INVESTIGATIONS AND RESPONSES; HEALTH, SAFETY AND THE PROTECTION OF PERSONNEL; REMOTE SENSING; SITE REMEDIAL TECHNIQUES; TREATMENT; ULTIMATE DISPOSAL; CASE HISTORIES; AND LEGAL AND INTERAGENCY PROGRAMS.

AVAILABILITY: HAZARDOUS MATERIAL CONTROL RESEARCH INSTITUTE, 9300 COLUMBIA BLVD., SILVER SPRING, MD 20910

IRIS ACCESSION NUMBER: EW006338

PUBLICATION DATE: OCT 79

TITLE: INTERIM NPDES (NATIONAL POLLUTANT DISCHARGE

ELIMINATION SYSTEM) COMPLIANCE BIOMONITORING INSPECTION MANUAL.

DESCRIPTOR: *EFFLUENTS; *ENVIRONMENTAL PROTECTION AGENCY; HEALTH; *INSTRUCTIONAL MATERIALS; *MONITORING; *PERMITS; *QUALITY CONTROL; SAFETY; *TECHNICAL REPORTS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 175P. PB81-116808

ABSTRACT: THIS IS ONE OF SEVERAL MONITORING DOCUMENTS PRODUCED BY EPA TO BE USED IN ASSESSING NPDES PERMIT COMPLIANCE AND MONITORING THE QUALITY OF WASTE WATER DISCHARGES INTO THE NATION'S WATERS. THIS PARTICULAR MANUAL PROVIDES GUIDANCE TO INSTRUCT NPDES INSPECTORS IN THE PROPER USE OF THOSE BIOMONITORING TECHNIQUES THAT HAVE BEEN OFFICIALLY RECOGNIZED FOR EPA USE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006341

PUBLICATION DATE: FEB 81

TITLE: SEWAGE FILTRATION. 1979-JANUARY, 1981 (CITATIONS FROM THE NTIS DATA BASE).

DESCRIPTOR: *BIBLIOGRAPHIES; COSTS; ECONOMICS; *FILTRATION; *OPERATIONS (WASTEWATER); *RESEARCH REVIEWS; *SEWAGE; SLUDGE; SLUDGE TREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION

DESCRIPTIVE NOTE: 83P. PB81-803553

ABSTRACT: CITATIONS OF FEDERALLY - FUNDED RESEARCH ARE PRESENTED RELATIVE TO STUDIES ON CENTRIFUGAL FILTRATION, TRICKLING FILTERS, SAND FILTERS, MICROSTRAINERS, AND VACUUM FILTERS. COSTS AND PERFORMANCE EVALUATION AS RELATED TO FILTRATION ARE INCLUDED. THIS UPDATED BIBLIOGRAPHY CONTAINS 83 CITATIONS, 37 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006342

PUBLICATION DATE: FEB 81

TITLE: SEWAGE FILTRATION. 1979-JANUARY, 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

DESCRIPTOR: *BIBLIOGRAPHIES; *EQUIPMENT; *FILTERS; *FILTRATION; FLOCCULATION; *OPERATIONS (WASTEWATER); POLLUTION; POLLUTION CONTROL; *SEWAGE; *WASTEWATER TREATMENT; WATER POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 69P. PB81-803561

ABSTRACT: REPORTS ON SEWAGE FILTRATION FROM WORLDWIDE JOURNAL LITERATURE ARE CITED IN THIS BIBLIOGRAPHY. STUDIES INCLUDE TRICKLING FILTERS, SAND FILTERS, CENTRIFUGAL FILTERS, AND VACUUM FILTERS. ADDITIVES, FLOCCULATION, NITROGEN, PHOSPHOROUS, BOD, AND BIOLOGICAL PROCESSES IN FILTRATION ARE ALSO COVERED. THIS UPDATED BIBLIOGRAPHY CONTAINS 69 CITATIONS, 43 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006343

PUBLICATION DATE: DEC 80

TITLE: POLLUTION AND ITS CONTROL IN THE PAPER AND PULP INDUSTRY. 1976-NOVEMBER, 1980 (CITATIONS FROM THE NTIS DATA BASE).

DESCRIPTOR: *BIBLIOGRAPHIES; COSTS; ENVIRONMENT; *INDUSTRIAL WASTES; INDUSTRY; *PAPER INDUSTRY; *POLLUTION; *POLLUTION CONTROL; *SOCIOECONOMIC INFLUENCES; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION

DESCRIPTIVE NOTE: 191P. PB81-801268

ABSTRACT: THE CITED REPORTS OF FEDERALLY - FUNDED RESEARCH COVER VARIOUS ASPECTS OF POLLUTION CONTROL IN THE PAPER AND PULP INDUSTRY. TOPICS INCLUDE CONTROL TECHNIQUES, TYPES OF WASTES, CONTROL COSTS, POLLUTION EFFECTS ON THE ENVIRONMENT, AND THE SOCIOECONOMIC FACTORS OF POLLUTION AND POLLUTION CONTROL. THIS UPDATED BIBLIOGRAPHY CONTAINS 191 CITATIONS, 42 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006344

PUBLICATION DATE: DEC 80

TITLE: POLLUTION AND ITS CONTROL IN THE PAPER AND PULP INDUSTRY. 1978-NOVEMBER, 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE).

DESCRIPTOR: AIR POLLUTION; *BIBLIOGRAPHIES; COSTS; ECONOMICS; ENVIRONMENT; *INDUSTRIAL WASTES; INDUSTRY; *PAPER INDUSTRY; *POLLUTION; POLLUTION CONTROL; RECYCLING; *SOLID WASTES; SOCIOECONOMIC INFLUENCES; *WASTE DISPOSAL; *WATER POLLUTION

DESCRIPTIVE NOTE: 124P. PB81-801276

ABSTRACT: THE CITED REPORTS FROM A WORLDWIDE LITERATURE SURVEY DISCUSS AIR, WATER, AND SOLIDWASTE POLLUTION FROM THE PULP AND PAPER INDUSTRY. ECONOMICS, WAYS TO RECYCLE EFFLUENTS, COST ESTIMATES, TYPES OF WASTE, DETECTION, SOCIOECONOMIC FACTORS, AND THE EFFECTS OF THE POLLUTION ON THE ENVIRONMENT ARE DISCUSSED. THIS UPDATED BIBLIOGRAPHY IS

AN UPDATE TO EW 005 100 AND CONTAINS 124 CITATIONS, 52 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW006380

PUBLICATION DATE: 80

TITLE: ENVIRONMENTAL TOXICOLOGY.

PERSONAL AUTHOR: DUFFUS, JOHN H.

DESCRIPTOR: *ENVIRONMENTAL EFFECTS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MONITORING; METABOLITES; *POST SECONDARY EDUCATION; *PESTICIDES; REFERENCE MATERIALS; RADIONUCLIDES; *TOXIC SUBSTANCES; *TOXICOLOGY

DESCRIPTIVE NOTE: 164P. PRICE: $15.95

ABSTRACT: THIS TEXTBOOK TAKES AN INTERDICIPLINARY APPROACH TO THE ANALYSIS OF ENVIRONMENTAL EFFECTS OF TOXICANTS. THIS APPROACH IS DEVELOPED FROM A FIRST CHAPTER DEALING WITH ASSESSMENT OF TOXICITY THROUGH CHAPTERS DESCRIBING THE METABOLISM OF TOXICANTS BY ANIMALS, PLANTS AND MICRO-ORGANISMS, AND FOUR CHAPTERS DISCUSSING PESTICIDES AND HERBICIDES, TOXIC METALS, ATMOSPHERIC TOXICANTS, AND PETROLEUM AND RADIONUCLIDES. FINALLY, THE PROBLEMS OF UTILIZING THIS KNOWLEDGE IN THE ENVIRONMENTAL CONTEXT ARE CONSIDERED.
AVAILABILITY: JOHN WILEY 8 SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

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EMISSIONS	(1)	EW006089
EMPIRICAL CURVES	(1)	EW005952
EMPLOYEE RELATIONS	(1)	EW005892
*EMPLOYEES	(1)	EW006207

*EMPLOYMENT OPPORTUNITIES (1) EW003366
ENDANGERED SPECIES (1) EW005870

*ENERGY (13) EW002049 EW003875 EW003878 EW003882 EW003931 EW005843 EW005925
EW005949 EW005965 EW006019 EW006110 EW006117 EW006120

ENERGY (8) EW003859 EW005511 EW005839 EW005908 EW005960 EW006005 EW006074
EW006175

*ENERGY ALTERNATIVES (1) EW006117

*ENERGY CONSERVATION (13) EW003882 EW003914 EW065511 EW005513 EW005722 EW005899 EW005949
EW005965 EW005999 EW006107 EW006117 EW006120 EW006208

ENERGY CONSERVATION (3) EW003878 EW005870 EW005876

ENERGY DEVELOPMENT (1) EW006074

*ENERGY RECOVERY (2) EW003874 EW006107

*ENGINEERING (21) EW002448 EW003886 EW003910 EW003911 EW003912 EW003913 EW003916
EW003965 EW004963 EW005714 EW005717 EW005884 EW005906 EW005928 EW005952
EW005972 EW005973 EW005974 EW006023 EW006102 EW006111

ENGINEERING (21) EW003366 EW003871 EW003880 EW003884 EW003917 EW005511 EW005689
EW005718 EW005719 EW005720 EW005838 EW005882 EW005925 EW005964 EW005968
EW006043 EW006084 EW006087 EW006117 EW006151 EW006174

ENGINEERING EDUCATION (1) EW006116

*ENGINEERING PROBLEMS (1) EW005714

*ENGINEERS (1) EW003049

ENGINEERS (1) EW006143

ENTOMOLOGY (1) EW000502

*ENVIRONMENT (19) EW002048 EW002050 EW002051 EW002053 EW002281 EW003357 EW003366
EW003479 EW003853 EW004038 EW005701 EW005902 EW006041 EW006043 EW006066
EW006067 EW006080 EW006116 EW006380

ENVIRONMENT (15) EW002927 EW003031 EW003050 EW003572 EW003998 EW005812 EW005871
EW0059[illegible] EW005934 EW005974 EW006055 EW006056 EW006290 EW006343 EW006344

ENVIRONMENTAL ANALYSIS (1) EW006017

*ENVIRONMENTAL ASSESSMENT (2) EW005148 EW005834

*ENVIRONMENTAL CRITERIA (1) EW003884

ENVIRONMENTAL CRITERIA (1) EW003068

*ENVIRONMENTAL DATA (1) EW006119

*ENVIRONMENTAL EDUCATION (3) EW002048 EW002049 EW003855

*ENVIRONMENTAL EFFECTS (2) EW006000 EW006380

*ENVIRONMENTAL ENGINEERING (1) EW005714

*ENVIRONMENTAL HEALTH (2) EW005987 EW006017

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*ENVIRONMENTAL IMPACT                (2)       EW005834  EW005934
 ENVIRONMENTAL IMPACT                (1)       EW006074

*ENVIRONMENTAL IMPACTS               (1)       EW005843

*ENVIRONMENTAL IMPACT STATEMENTS     (2)       EW005933  EW006067

 ENVIRONMENTAL IMPACT STATEMENTS     (1)       EW005701

*ENVIRONMENTAL INFLUENCES            (7)       EW002415  EW003562  EW003843  EW003852  EW003859  EW003927  EW006016

 ENVIRONMENTAL INFLUENCES            (4)       EW000502  EW002936  EW003855  EW005997

*ENVIRONMENTAL ISSUES                (1)       EW005870

*ENVIRONMENTAL MANAGEMENT            (1)       EW005970

 ENVIRONMENTAL MONITORING            (1)       EW006079

*ENVIRONMENTAL POLLUTION             (1)       EW006091

*ENVIRONMENTAL PROTECTION            (2)       EW005701  EW005870

*ENVIRONMENTAL PROTECTION AGENCY     (10)      EW005812  EW005871  EW005902  EW005904  EW005943  EW005944  EW006053
                                     EW006111  EW006287  EW006338

 ENVIRONMENTAL PROTECTION AGENCY     (5)       EW005819  EW005935  EW006055  EW006056  EW006074

*ENVIRONMENTAL QUALITY               (6)       EW005719  EW005937  EW005960  EW006005  EW006094  EW006170

 ENVIRONMENTAL QUALITY               (1)       EW006119

 ENVIRONMENTAL REGULATIONS           (1)       EW005967

*ENVIRONMENTAL RESEARCH              (3)       EW005972  EW005973  EW005974

 ENVIRONMENTAL RESEARCH              (1)       EW005960

*ENVIRONMENTAL TECHNICIANS           (2)       EW002936  EW003049

*ENVIRONMENTAL TOXICITY              (1)       EW005958

 EPIDEMIOLOGY                        (3)       EW006072  EW006138  EW006179

*EQUIPMENT                           (36)      EW002550  EW003868  EW003872  EW003878  EW003885  EW003913  EW003916
                                     EW003926  EW003929  EW003966  EW004963  EW005721  EW005722  EW005723  EW005820
                                     EW005821  EW005853  EW005917  EW005918  EW005919  EW005947  EW005998  EW005999
                                     EW006019  EW006023  EW006036  EW006052  EW006090  EW006096  EW006110  EW006136
                                     EW006240  EW006245  EW006309  EW006330  EW006342

 EQUIPMENT                           (32)      EW002091  EW002551  EW003873  EW003876  EW003881  EW003923  EW003924
                                     EW003925  EW003930  EW005502  EW005717  EW005718  EW005719  EW005724  EW005799
                                     EW005879  EW005882  EW005930  EW005994  EW005996  EW005997  EW006033  EW006034
                                     EW006051  EW006095  EW006171  EW006200  EW006239  EW006242  EW006243  EW006244
                                     EW006268

*EQUIPMENT DESIGN                    (1)       EW005986

 EQUIPMENT DESIGN                    (1)       EW006076

*EQUIPMENT SELECTION                 (1)       EW006102

*EQUIPMENT STANDARDS                 (1)       EW003724
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*EQUIPMENT UTILIZATION          (1)       EW003856
*EQUITY                         (1)       EW006103

 EQUITY                         (1)       EW006176

*EROSION                        (1)       EW005076

 EROSION                        (1)       EW005083


*ESTERS                         (1)       EW006069

*ESTUARIES                      (1)       EW003974

 ESTUARIES                      (3)       EW003031  EW003828  EW006039

 ESTUARINE ENVIRONMENTS         (1)       EW005959

*ETHERS                         (1)       EW006069

 EUTROPHICATION                 (2)       EW005082  EW005931

*EVALUATION                     (20)      EW000502  EW005794  EW005799  EW005819  EW005854  EW005885  EW005887
                                EW005888  EW005890  EW005904  EW005945  EW005950  EW005966  EW006004  EW006005
                                EW006093  EW006094  EW006118  EW006204  EW006209

 EVALUATION                     (6)       EW005690  EW005820  EW005892  EW006070  EW006074  EW006130

*EVALUATION CRITERIA            (1)       EW006018

*EVALUATION METHODS             (1)       EW005888

 EXAMINATIONS                   (1)       EW005798

 EXPLOSIONS                     (1)       EW006077

*EXPLOSIVES                     (1)       EW006076

*EXPOSURE                       (2)       EW006139  EW006153

*EXTRACTION                     (1)       EW003972

*FACILITIES                     (39)      EW002448  EW003068  EW003714  EW003880  EW003881  EW005513  EW005717
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                                EW005853  EW005879  EW005881  EW005884  EW005925  EW005935  EW005943  EW005945
                                EW005946  EW005947  EW005967  EW005978  EW005985  EW006068  EW006102  EW006105
                                EW006106  EW006172  EW006173  EW006174  EW006195  EW006197  EW006202  EW006309

 FACILITIES                     (11)      EW003911  EW005722  EW005822  EW005917  EW005948  EW005963  EW006115
                                EW006136  EW006169  EW006193  EW006268


 FACILITY DESIGN                (1)       EW005986

*FACILITY GUIDELINES            (2)       EW002936  EW003856

*FACILITY INVENTORY             (1)       EW005513

*FACILITY MODIFICATION          (2)       EW006105  EW006106

*FACILITY PLANNING              (3)       EW003857  EW003884  EW005811
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*FACILITY REQUIREMENTS (1) EW003927

*FACULTATIVE SYSTEMS (1) EW006198
*FAULT TREE ANALYSIS (1) EW005946
*FECAL COLIFORM TESTS (1) EW005996
*FEDERAL AID (2) EW005834 EW005903
FEDERAL BUDGET (1) EW005903
*FEDERAL GOVERNMENT (2) EW003572 EW006094
FEDERAL GOVERNMENT (2) EW002927 EW003357
*FEDERAL LEGISLATION (8) EW003724 EW005696 EW005701 EW005702 EW005716 EW006053 EW006055 EW006056
FEDERAL LEGISLATION (4) EW005997 EW006067 EW006138 EW006169
*FEDERAL POLICIES (1) EW005701
*FEDERAL POLICY (1) EW005903
*FEDERAL PROGRAMS (2) EW005901 EW005904
FEDERAL PROGRAMS (1) EW005838
*FEDERAL REGULATIONS (1) EW005819
FEDERAL REGULATIONS (2) EW006098 EW006110

FEDERAL STATE RELATIONSHIPS (1) EW006169
FERMENTATION (1) EW005949
FERROUS METALS (1) EW006154
*FERTILIZERS (2) EW006124 EW006333
FERTILIZERS (4) EW003996 EW005083 EW006332 EW006334
*FIELD STUDIES (1) EW005966
*FIELD TESTS (1) EW006209
*FILTERS (2) EW006195 EW006342
*FILTER SYSTEMS (1) EW006122
*FILTRATION (5) EW002080 EW006318 EW006319 EW006341 EW006342
*FINANCIAL SERVICES (1) EW005691
*FINANCING (2) EW001664 EW006113
*FIRST AID (1) EW006153
FIRST AID (1) EW006199

FLAMMABLE CHEMICALS	(1)	EW006022		
*FLANGED PIPES	(1)	EW002093		
FLOCCULANTS	(1)	EW003996		
FLOCCULATION	(3)	EW006193	EW006194	EW006342
FLOOD CONTROL	(1)	EW006143		
FLOODS	(1)	EW006151		
FLORIDA	(1)	EW005794		
FLOTATION	(1)	EW006090		
*FLOW	(1)	EW005952		
FLOW ANALYSIS	(1)	EW005965		
*FLOW MEASUREMENT	(2)	EW002282	EW006176	
FLOW MEASUREMENT	(1)	EW006196		
*FLUID FLOW	(1)	EW006050		
FLUID FLOW	(2)	EW005714	EW006143	
*FLUIDIZED BEDS	(1)	EW006024		
*FLUORIDATION	(1)	EW006250		
FLUORIMETRY	(1)	EW006002		
*FLUSHING	(1)	EW005975		
FLUVIAL SEDIMENTS	(1)	EW006140		
FORECASTING	(1)	EW006018		
*FORESTRY	(3)	EW005076	EW005078	EW005083
FORESTRY PRACTICES	(1)	EW005083		
*FREEZING	(1)	EW006104		
FRESHWATER ECOSYSTEMS	(1)	EW005871		
*FUELS	(1)	EW003875		
*FUNDING	(3)	EW005889	EW005893	EW005943
FUNDING	(1)	EW006116		
*FUTURES (OF SOCIETY)	(1)	EW005960		
*GAS CHROMATOGRAPHY	(3)	EW003973	EW005929	EW005998

*CASES	(1)	EW006051
GASES	(2)	EW003882 EW006076
*GASKETS	(1)	EW006173
*GAS MASKS	(1)	EW006051
*GATE VALVES	(1)	EW006246
*GENERAL ACCOUNTING OFFICE	(1)	EW006115
*GEOLOGICAL SURVEY	(1)	EW006142
*GEOLOGY	(1)	EW003031
GLOBAL APPROACH	(1)	EW003828
GOVERNMENT	(1)	EW005887
*GOVERNMENT PUBLICATIONS	(1)	EW006287
GOVERNMENT REGULATIONS	(1)	EW005870
*GOVERNMENT ROLE	(4)	EW003357 EW003853 EW005838 EW005892
GRADUATES	(1)	EW006116
GRADUATE STUDY	(1)	EW006116
*GRANTS	(3)	EW005886 EW005889 EW005893
GRANTS	(1)	EW006053
GRAPHS	(1)	EW006119
*GREASE	(2)	EW005992 EW005993
*GREAT LAKES	(2)	EW005082 EW005908
*GRINDER PUMPS	(1)	EW005986
GRINDERS	(1)	EW005800
GRIT CHAMBERS	(1)	EW006196
*GROUNDWATER	(11)	EW003829 EW005840 EW005842 EW005895 EW005915 EW006014 EW006142 EW006144 EW006150 EW006332 EW006333
GROUNDWATER	(6)	EW003828 EW006039 EW006143 EW006152 EW006334 EW006337
*GUIDELINES	(9)	EW005513 EW005821 EW005822 EW005890 EW006053 EW006147 EW006269 EW006270 EW006273
GUIDELINES	(3)	EW005511 EW005905 EW006271
*GUIDES	(9)	EW005889 EW005891 EW005893 EW005905 EW005930 EW006055 EW006056 EW006169 EW006210
GUIDES	(3)	EW005838 EW006136 EW006291
HABITATS	(1)	EW005719
*HALOGENATED HYDROCARBONS	(1)	EW006000

*HANDBOOKS	(1)	EW006067
HANDBOOKS	(1)	EW005899
*HANDLING	(1)	EW006076
HANDLING	(1)	EW006184
*HAND TOOLS	(1)	EW005800
*HAZARDOUS CHEMICALS	(1)	EW006022
HAZARDOUS CHEMICALS	(1)	EW005982
*HAZARDOUS MATERIALS	(8)	EW002174 EW006006 EW006063 EW006076 EW006077 EW006083 EW006268 EW006290
HAZARDOUS MATERIALS	(2)	EW005502 EW005821
*HAZARDOUS SUBSTANCES	(1)	EW005936
*HAZARDOUS WASTES	(14)	EW003998 EW005696 EW005812 EW005821 EW005840 EW005841 EW005842 EW006055 EW006056 EW006066 EW006083 EW006169 EW006184 EW006337
HAZARDOUS WASTES	(2)	EW005870 EW006005
*HEALTH	(4)	EW002065 EW006072 EW006147 EW006179
HEALTH	(3)	EW006153 EW006337 EW006338
*HEALTH CONDITIONS	(1)	EW005822
*HEALTH EDUCATION	(1)	EW006020
*HEALTH EFFECTS	(3)	EW006020 EW006072 EW006139
*HEALTH HAZARDS	(3)	EW006017 EW006022 EW006138
HEALTH HAZARDS	(2)	EW006139 EW006177
*HEATING	(1)	EW006019
HEATING	(1)	EW005883
*HEAT TRANSFER	(1)	EW002283
*HEAVY METALS	(1)	EW002449
HEAVY METALS	(4)	EW006001 EW006020 EW006310 EW006321
*HERITAGE FOUNDATION	(1)	EW005944
*HISTORY	(2)	EW000412 EW004963
*HOSPITAL ENGINEERS	(1)	EW005883
*HOUSING	(1)	EW005899
*HUMAN FACTORS	(1)	EW005981
*HYDRAULICS	(6)	EW003911 EW003912 EW003916 EW006050 EW006107 EW006143

HYDRAULICS (1) EW003910
*HYDROCARBONS (2) EW006000 EW006069

*HYDROELECTRIC PLANTS (1) EW005965

HYDROELECTRIC POWER (1) EW005968

*HYDROLOGICAL METHODS (1) EW006141

*HYDROLOGY (8) EW003828 EW003829 EW005895 EW005932 EW006141 EW006143 EW006144
EW006152

HYDROLOGY (6) EW005078 EW005842 EW005871 EW006140 EW006151 EW006265

*HYDROQUINONE (1) EW003977

HYPOCHLORINATORS (1) EW006199

*IDENTIFICATION (1) EW005971

*ILLINOIS (1) EW003181

ILLINOIS (1) EW003852

*IMPACT ANALYSIS (1) EW006270

*IMPACT ASSESSMENT (2) EW005933 EW006067

IMPACT ASSESSMENT (2) EW006060 EW006150

*INCINERATION (1) EW003996

INCINERATION (2) EW006083 EW006088

*INCUBATION (1) EW006247

*INDEXES (1) EW005987

INDEXES (1) EW005933

*INDICATOR ORGANISMS (3) EW005989 EW005990 EW006049

*INDIRECT COSTS (1) EW005886

*INDIVIDUALIZED INSTRUCTION (1) EW003966

*INDUSTRIAL GROWTH (1) EW005978

*INDUSTRIAL POLLUTION (1) EW006066

*INDUSTRIAL TECHNOLOGY (1) EW006171

*INDUSTRIAL WASTES (31) EW002552 EW002553 EW003714 EW003884 EW003997 EW003998 EW005721
EW005841 EW005881 EW005935 EW006066 EW006084 EW006085 EW006086 EW006087
EW006089 EW006095 EW006096 EW006100 EW006180 EW006184 EW006269 EW006270
EW006271 EW006273 EW006275 EW006318 EW006319 EW006321 EW006343 EW006344

INDUSTRIAL WASTES (6) EW005720 EW005836 EW005840 EW005953 EW006190 EW006290

*INDUSTRIAL WASTEWATER (1) EW006024

INDUSTRIAL WASTEWATER (1) EW005853

*INDUSTRIES	(2)	EW006066 EW006089
INDUSTRIES	(4)	EW006084 EW066095 EW006096 EW006116
*INDUSTRY	(9)	EW002080 EW003853 EW003878 EW003884 EW003928 EW003997 EW005906 EW005908 EW006289
INDUSTRY	(8)	EW003357 EW003878 EW003879 EW003998 EW005937 EW005949 EW006343 EW006344
INFECTIOUS DISEASES	(1)	EW006072
*INFILTRATION	(1)	EW005690
INFILTRATION/INFLOW	(1)	EW005720
*INFORMATION DISSEMINATION	(1)	EW003357
INFORMATION SOURCES	(1)	EW005987
INFORMATION SYSTEMS	(1)	EW005907
INHIBITORS	(1)	EW006061
*INJECTORS	(1)	EW005921
*INLET CARTRIDGES	(1)	EW005918
*INLET STRAINERS	(1)	EW005919
INNOVATION	(1)	EW005899
*INORGANIC CHEMICALS	(1)	EW006140
INORGANIC COMPOUNDS	(4)	EW006001 EW006003 EW006069 EW006070
INSECTICIDES	(1)	EW006138
INSPECTION	(2)	EW003873 EW006154
*INSTRUCTION	(4)	EW003049 EW005890 EW005941 EW006129
INSTRUCTION	(6)	EW003924 EW005797 EW005892 EW006010 EW006130 EW006291
INSTRUCTIONAL FILMS	(1)	EW000412
*INSTRUCTIONAL MATERIALS	(135)	EW000412 EW002048 EW002049 EW002050 EW002051 EW002052 EW002053 EW002173 EW002174 EW002282 EW002283 EW002284 EW002285 EW002449 EW002550 EW002551 EW002552 EW002553 EW003031 EW003181 EW003270 EW003366 EW003923 EW003924 EW003925 EW003926 EW003965 EW003966 EW003996 EW003997 EW003998 EW005714 EW005800 EW005879 EW005880 EW005881 EW005882 EW005883 EW005884 EW005885 EW005886 EW005889 EW005891 EW005893 EW005917 EW005918 EW005919 EW005921 EW005922 EW005924 EW005926 EW005927 EW005930 EW005932 EW005933 EW005937 EW005988 EW005989 EW005990 EW005991 EW005992 EW005993 EW005994 EW005995 EW005996 EW005999 EW006001 EW006003 EW006004 EW006007 EW006008 EW006009 EW006010 EW006011 EW006017 EW006018 EW006019 EW006037 EW006038 EW006039 EW006040 EW006041 EW006042 EW006043 EW006044 EW006045 EW006046 EW006047 EW006048 EW006049 EW006050 EW006051 EW006052 EW006066 EW006067 EW006068 EW006079 EW006092 EW006100 EW006129 EW006136 EW006150 EW006151 EW006152 EW006180 EW006190 EW006191 EW006192 EW006193 EW006194 EW006195 EW006196 EW006197 EW006198 EW006199 EW006200 EW006210 EW006239 EW006240 EW006241 EW006242 EW006243 EW006244 EW006245 EW006246 EW006247 EW006248 EW006249 EW006250 EW006268 EW006289 EW006291 EW006309 EW006338 EW006380

INSTRUCTIONAL MATERIALS	(4)	EW002281 EW002554 EW003049 EW005942
*INSTRUMENTATION	(15)	EW002090 EW002091 EW002282 EW002283 EW002284 EW002285 EW002551 EW002552 EW002554 EW003829 EW005930 EW005946 EW005976 EW005998 EW006172
INSTRUMENTATION	(2)	EW003859 EW006061
*INTEGRATED PEST MANAGEMENT	(1)	EW000502
*INTERAGENCY COOPERATION	(1)	EW006290
INTERAGENCY COOPERATION	(1)	EW006337
*INTERNATIONAL JOINT COMMISSION	(1)	EW005082
INTOXICATION	(1)	EW006138
IODINE	(1)	EW003973
*ION EXCHANGE	(1)	EW003917
*IRON FERRATE	(1)	EW005984
IRON PIPES	(2)	EW002081 EW002093
*IRRADIATION	(1)	EW006177
IRRADIATION	(1)	EW006088
*IRRIGATION	(3)	EW005719 EW006333 EW006334
IRRIGATION	(2)	EW005836 EW006332
*IRRIGATION SYSTEMS	(2)	EW006332 EW006334
JOB ANALYSIS	(1)	EW005891
*JOB SEARCH METHODS	(1)	EW003366
*JOB SKILLS	(4)	EW003181 EW003924 EW003925 EW006013
JOB SKILLS	(10)	EW002936 EW003049 EW003923 EW003926 EW003966 EW006007 EW006008 EW006009 EW006010 EW006011
JOB TRAINING	(2)	EW005798 EW005891
LABORATORIES	(1)	EW003724
*LABORATORY ANALYSIS	(1)	EW005983
LABORATORY ANALYSIS	(1)	EW003930
*LABORATORY DESIGN	(1)	EW005926
*LABORATORY EQUIPMENT	(1)	EW005994
*LABORATORY MANUALS	(3)	EW005929 EW006079 EW006092
*LABORATORY PROCEDURES	(31)	EW003724 EW003828 EW005696 EW005929 EW005971 EW005988 EW005991 EW005992 EW005993 EW005994 EW005995 EW005996 EW006000 EW006001 EW006002 EW006033 EW006034 EW006045 EW006046 EW006048 EW006049 EW006079 EW006092 EW006123 EW006140 EW006247 EW006248 EW006326 EW006327 EW006328 EW006330

LABORATORY PROCEDURES (4) EW005702 EW005880 EW006097 EW006178

LABORATORY SAFETY (1) EW005502

*LABORATORY TECHNIQUES (8) EW002449 EW003972 EW003976 EW003978 EW005929 EW005998 EW006047 EW006249

LABORATORY TECHNIQUES (6) EW003181 EW003973 EW003974 EW003975 EW003977 EW005972

LABORATORY TESTS (1) EW005913

*LABOR PRODUCTIVITY (1) EW006112

*LAGOONS (2) EW003929 EW006198

*LAKES (3) EW005871 EW005931 EW006150

LAKES (3) EW003828 EW004902 EW006039

LAKE SUPERIOR (1) EW006319

*LAND APPLICATION (6) EW005836 EW006124 EW006310 EW006332 EW006333 EW006334

*LAND DISPOSAL (1) EW005821

LAND DISPOSAL (2) EW006088 EW006184

*LANDFILLS (2) EW005821 EW006267

LANDFILLS (1) EW006083

LAND RECLAMATION (1) EW006267

LANDSLIDES (1) EW005076

*LAND TREATMENT (1) EW005836

LAND TREATMENT (1) EW005934

*LAND USE (6) EW003270 EW004902 EW005078 EW005082 EW006174 EW006337

LAND USE (9) EW003714 EW003859 EW003928 EW003965 EW005821 EW005875 EW005934 EW006005 EW006170

*LAWS (1) EW003050

LAWS (4) EW001664 EW002086 EW005938 EW005973

LAWYERS (1) EW005937

*LEAD PIPES (1) EW003915

*LEAKAGE (1) EW005690

*LEAKS (3) EW006239 EW006242 EW006244

LEAKS (3) EW006240 EW006241 EW006243

LEARNING PROBLEMS (1) EW005942

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*LEARNING THEORIES              (1)      EW005941
 LEARNING THEORIES              (1)      EW005942

 LEGAL LIABILITY                (1)      EW006184

*LEGISLATION                    (8)      EW003572  EW003852  EW005696  EW005701  EW005716  EW005840  EW005937
                                EW006066

 LEGISLATION                    (7)      EW003843  EW003884  EW003927  EW005702  EW005841  EW005974  EW006088

 LESSON PLANS                   (1)      EW006130

*LEVEL MEASUREMENT              (1)      EW002285

*LIFT STATIONS                  (2)      EW005980  EW006102

*LIMNOLOGY                      (1)      EW005871

 LIMNOLOGY                      (1)      EW005931

*LIQUIFIED NATURAL GAS          (1)      EW006076

*LITERATURE REVIEWS             (7)      EW004963  EW005933  EW005959  EW006069  EW006070  EW006095  EW006267

*LIVING STANDARDS               (1)      EW003855

 LOADING                        (1)      EW006076

*LOCAL GOVERNMENT               (1)      EW004902

*LOCAL PLANNING                 (1)      EW004902

*LOGGING                        (1)      EW005076

*LUBRICATION                    (1)      EW006245

*MACHINERY                      (1)      EW003966

*MAINTENANCE                    (30)     EW002554  EW002936  EW003868  EW003873  EW003885  EW003913  EW003915
                                EW003916 EW003966  EW005660  EW005795  EW005820  EW005853  EW005917  EW005918
                                EW005919 EW005921  EW005945  EW005963  EW005969  EW005980  EW005986  EW006104
                                EW006154 EW006175  EW006195  EW006196  EW006245  EW006246  EW006309

 MAINTENANCE                    (15)     EW003880  EW005689  EW005690  EW005880  EW005883  EW005884  EW005922
                                EW005946 EW005976  EW005985  EW006068  EW006110  EW006194  EW006198  EW006200

*MANAGEMENT                     (53)     EW000502  EW002550  EW002936  EW003270  EW003843  EW003855  EW003856
                                EW003857 EW003871  EW003911  EW003912  EW003913  EW003965  EW004902  EW005838
                                EW005839 EW005841  EW005875  EW005880  EW005891  EW005892  EW005895  EW005904
                                EW005905 EW005925  EW005931  EW005938  EW005943  EW005944  EW005946  EW005960
                                EW005963 EW005970  EW006018  EW006021  EW006064  EW006083  EW006091  EW006093
                                EW006103 EW006109  EW006112  EW006113  EW006120  EW006125  EW006145  EW006169
                                EW006170 EW006184  EW006204  EW006206  EW006207  EW006337

 MANAGEMENT                     (20)     EW003859  EW003884  EW005660  EW005691  EW005795  EW005821  EW005887
                                EW005907 EW005965  EW005981  EW005991  EW006004  EW006100  EW006136  EW006152
                                EW006180 EW006205  EW006209  EW006211  EW006267

*MANAGEMENT TECHNIQUES          (1)      EW006112

*MANAGEMMENT                    (1)      EW003910

*MANPOWER DEVELOPMENT           (6)      EW005891  EW006007  EW006008  EW006009  EW006010  EW006011
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*MANPOWER NEEDS (2) EW003857 EW005891
*MANUALS (4) EW002174 EW005888 EW006154 EW006309
MANUALS (2) EW002086 EW006291
*MANUFACTURING (2) EW005820 EW005987
*MARGINAL COST ANALYSIS (1) EW006125
*MARINE ENVIRONMENT (1) EW005959
*MARINE POLLUTION (1) EW003031
MARSHES (1) EW005719
*MASSACHUSETTS (1) EW003479
*MASS BALANCE (1) EW006023
*MASS MEDIA (1) EW004038
*MASS SPECTROMETERS (1) EW005998
*MASS SPECTROMETRY (1) EW005929
MATERIAL HANDLING (1) EW005502
*MATERIALS HANDLING (2) EW005926 EW006194
*MATHEMATICAL APPLICATIONS (4) EW003886 EW003912 EW005907 EW006013
*MATHEMATICAL MODELING (3) EW003876 EW006014 EW006151
*MATHEMATICAL MODELS (2) EW003975 EW005801
MATHEMATICAL MODELS (6) EW005690 EW005909 EW005931 EW005932 EW006076 EW006145
*MATHEMATICS (1) EW006013
MATHEMATICS (3) EW005714 EW005880 EW006151
*MEASUREMENT (10) EW002282 EW002283 EW002284 EW002285 EW005952 EW005976 EW005994 EW006123 EW006176 EW006330
MEASUREMENT (4) EW005882 EW005892 EW006040 EW006047

*MEASUREMENT TECHNIQUES (2) EW003833 EW006140
*MEDIATION (1) EW005970
*MEDICAL TREATMENT (2) EW006022 EW006153
*MEMBRANE LINERS (1) EW005968
METABOLITES (1) EW006330
*METALS (3) EW002415 EW005906 EW006124
METALS (4) EW002449 EW003859 EW003997 EW006070
METALWORK (1) EW006154

METEOROLOGY	(2)	EW005972 EW006265
*METERING	(1)	EW006176
METHANE	(2)	EW005925 EW005949
METHODOLOGY	(1)	EW005887
*METROPOLITAN AREAS	(1)	EW006117
*MICHIGAN	(2)	EW005798 EW006109
MICHIGAN	(2)	EW005719 EW005836
*MICROBIOLOGY	(8)	EW003870 EW003876 EW005990 EW006042 EW006043 EW006247 EW006248 EW006249
MICROBIOLOGY	(2)	EW003724 EW005882
MICROORGANISMS	(1)	EW006121
*MICROPROCESSORS	(1)	EW006172
MINERALS	(3)	EW002927 EW005960 EW006179
MINING	(2)	EW005843 EW006084
*MINNESOTA	(1)	EW003562
*MISSOURI	(1)	EW005799
*MODELING	(1)	EW005934
MODELING	(2)	EW005973 EW006093
*MODELS	(6)	EW003911 EW003912 EW003976 EW005932 EW005960 EW006142
MODELS	(2)	EW005696 EW006151
*MONITORING	(13)	EW002415 EW005926 EW005946 EW005992 EW005993 EW005995 EW006000 EW006001 EW006079 EW006091 EW006191 EW006338 EW006380
MONITORING	(10)	EW005821 EW005854 EW005989 EW006014 EW006017 EW006092 EW006095 EW006096 EW006119 EW006172
*MOTIVATION	(1)	EW006007
*MOTORS	(1)	EW006036
*MULITPLE DILUTION TUBE	(1)	EW005996
*MULTIMEDIA	(1)	EW005148
*MUNICIPALITIES	(9)	EW000412 EW003068 EW003562 EW003872 EW003882 EW005907 EW005935 EW006053 EW006124
MUNICIPALITIES	(13)	EW003357 EW003714 EW003869 EW003871 EW003873 EW003880 EW003913 EW003914 EW005853 EW005932 EW006024 EW006100 EW006115

MUNICIPAL UTILITIES	(1)	EW006174
*MUNICIPAL WASTES	(2)	EW003270 EW006180
MUNICIPAL WASTES	(1)	EW006190
MUNICIPIALITIES	(1)	EW006191
MUTAGENIC EFFECTS	(1)	EW006153
*MUTAGENS	(2)	EW005926 EW005927
*NATIONAL ASSESSMENT	(1)	EW005716
*NATIONAL ENVIRONMENTAL POLICY ACT	(2)	EW005701 EW005834
*NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	(1)	EW006115
*NATIONAL PROGRAMS	(1)	EW003843
*NATURAL RESOURCES	(8)	EW002927 EW003828 EW003829 EW003843 EW005078 EW005716 EW005960 EW006005
NATURAL RESOURCES	(8)	EW000412 EW002415 EW003357 EW003366 EW003853 EW005938 EW006055 EW006056
NAVAL ENGINEERING	(1)	EW006143
*NEEDS ASSESSMENT	(3)	EW005797 EW005798 EW005891
NEEDS ASSESSMENT	(1)	EW005934
*NEPA	(1)	EW006667
NETHERLANDS	(1)	EW006033
*NEUTRALIZATION	(1)	EW003998
NEUTRON ACTIVATION ANALYSIS	(1)	EW003974
*NEWS MEDIA	(1)	EW004038
NEW YORK	(1)	EW005718
*NITRATES	(3)	EW003996 EW005995 EW006124
*NITRITES	(1)	EW005995
*NITROGEN	(3)	EW003876 EW005951 EW005995
NITROGEN	(1)	EW005934
*NITROSAMINES	(1)	EW006069
NOISE	(1)	EW006095
*NOISE CONTROL	(1)	EW005999
*NOISE POLLUTION	(1)	EW002050
NOISE POLLUTION	(1)	EW006287
*NOISE POLLUTION CONTROL	(1)	EW006091

*NON-FORMAL EDUCATION (1) EW003357
NONMETALLIC PIPES (1) EW006104
*NONPOINT POLLUTION (2) EW005934 EW005938
*NONPOINT SOURCE POLLUTION (2) EW005083 EW005934
*NONPOINT SOURCES (1) EW003057
NUCLEAR POWER (1) EW005870
*NUTRIENTS (1) EW005953
NUTRIENTS (4) EW005931 EW006288 EW006332 EW006334
NUTRITION (1) EW006179
OBJECTIVES (5) EW006007 EW006008 EW006009 EW006010 EW006011
*OCCUPATIONAL EXPOSURE (1) EW006139
*OCCUPATIONAL HEALTH (1) EW006022
OCCUPATIONAL HEALTH (1) EW006147
*OCCUPATIONAL INFORMATION (1) EW003366
OCCUPATIONAL SAFETY AND HEALTH ACT (2) EW005696 EW005702
*OCEAN DUMPING (1) EW003031
OCEAN DUMPING (1) EW006184
*OCEANOLOGY (2) EW003031 EW006086
OCEANOLOGY (1) EW006039
*OCEANS (1) EW006039
*OCEAN WASTE DISPOSAL (1) EW006086
*ODOR (2) EW002176 EW006003
ODOR (1) EW005928
*ODOR CONTROL (1) EW006108
*ODOR PROBLEMS (1) EW003870
*ODORS (1) EW006108
ODORS (2) EW005717 EW095720
OHIO (1) EW005724
*OIL (2) EW005992 EW005993
OIL EXPLORATION (1) EW006074
*OIL POLLUTION (4) EW005959 EW006074 EW006090 EW006330
*OIL POLLUTION ABATEMENT (1) EW006074

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OIL SHALE (1) EW005843

*OIL SPILLS (2) EW005936 EW006090

*ON-SITE DISPOSAL (1) EW005985

*ONSITE WASTEWATER TREATMENT (1) EW005660

OPERATIONAL PROBLEMS (1) EW005946

*OPERATIONS (1) EW003270

OPERATIONS (1) EW005915

*OPERATIONS (FORESTRY) (2) EW005076 EW005083

*OPERATIONS RESEARCH (1) EW003965

*OPERATIONS (WASTEWATER) (60) EW002936 EW003562 EW003856 EW003873 EW003877 EW003996 EW005717
EW005718 EW005720 EW005721 EW005722 EW005794 EW005836 EW005853 EW005854
EW005879 EW005880 EW005881 EW005884 EW005917 EW005919 EW005922 EW005930
EW005943 EW005945 EW005947 EW005948 EW005950 EW005951 EW005963 EW005977
EW005979 EW005980 EW005981 EW005990 EW006045 EW006046 EW006062 EW006095
EW006096 EW006097 EW006105 EW006106 EW006119 EW006120 EW006121 EW006122
EW006123 EW006136 EW006177 EW006180 EW006190 EW006196 EW006197 EW006200
EW006202 EW006246 EW006309 EW006341 EW006342

OPERATIONS (WASTEWATER) (5) EW003997 EW005946 EW005983 EW006043 EW006199

*OPERATIONS (WATER) (30) EW000412 EW002090 EW002091 EW002175 EW002448 EW003181 EW003724
EW005691 EW005910 EW005917 EW005922 EW005930 EW005964 EW005966 EW006013
EW006062 EW006065 EW006097 EW006099 EW006178 EW006193 EW006194 EW006195
EW006200 EW006204 EW006205 EW006206 EW006207 EW006208 EW006250

OPERATIONS (WATER) (9) EW002080 EW002082 EW002086 EW002092 EW002173 EW002282 EW005724
EW005983 EW006199

*OPERATORS (1) EW005797

OPERATORS (1) EW005798

OPERATOR TRAINING (1) EW005981

*OPINIONS (1) EW005870

ORDINANCES (1) EW005853

*OREGON (1) EW005076

*ORGANIC ANALYSIS (1) EW005929

*ORGANIC CHEMICALS (2) EW003975 EW005929

ORGANIC CHEMICALS (1) EW003977

*ORGANIC CHEMISTRY	(2)	EW003917	EW006017					
*ORGANIC COMPOSITION	(1)	EW006121						
*ORGANIC COMPOUNDS	(3)	EW005148	EW006069	EW006107				
ORGANIC COMPOUNDS	(3)	EW006001	EW006003	EW006070				
ORGANIC MATERIALS	(1)	EW003917						
*ORGANIC NITROGEN	(1)	EW005951						
*ORGANIC POLLUTANTS	(2)	EW005971	EW006014					
ORGANICS	(1)	EW005951						
ORGANIC SOLIDS	(1)	EW006124						
ORGANIZATION	(1)	EW005981						
*ORGANIZATIONAL DESIGN	(1)	EW006112						
*OSHA	(1)	EW002086						
*OSMOSIS	(1)	EW006172						
*OUTLET WORKS	(1)	EW005723						
OVERFLOW	(1)	EW005980						
*OXIDATION	(2)	EW005924	EW006107					
OXIDATION	(1)	EW003996						
*OXYGEN	(2)	EW005817	EW006046					
OXYGEN TRANSFER	(1)	EW005947						
OXYGEN UPTAKE	(1)	EW005947						
*OZONE	(7)	EW005882	EW005911	EW005913	EW005914	EW006095	EW006096	EW006097
OZONE	(1)	EW006099						
*PACKAGE PLANTS	(4)	EW005910	EW005945	EW005966	EW006136			
*PACKAGE WATER TREATMENT PLANTS	(1)	EW005966						
*PAINTING	(1)	EW006154						
*PAINTS	(1)	EW006154						
*PAPERBOARD MILLS	(1)	EW006270						
*PAPER INDUSTRY	(2)	EW006343	EW006344					
*PAPER MILLS	(1)	EW006270						
*PARASITES	(1)	EW006012						
PARASITES	(1)	EW006043						
*PARKS	(1)	EW005724						

*PATENTS (2) EW003996 EW003997
*PATHOGENS (1) EW006043

PATHOGENS (4) EW005984 EW006012 EW006177 EW006289

*PCB'S (1) EW006080

PEACE CORPS (1) EW006068

PERFORMANCE (1) EW006115

*PERFORMANCE EVALUATION (1) EW005966

*PERFORMANCE INDICATORS (1) EW003873

*PERMITS (2) EW006169 EW006338

PERMITS (1) EW006191

*PERSONNEL (2) EW003857 EW005969

PERSONNEL (3) EW002550 EW003856 EW006116

*PEST CONTROL (1) EW006012

PEST CONTROL (1) EW005987

*PESTICIDE RESIDUES (1) EW006138

*PESTICIDES (9) EW002050 EW005502 EW005987 EW006012 EW006138 EW006139 EW006147
EW006287 EW006380

PESTICIDES (6) EW000502 EW002415 EW005083 EW005934 EW006070 EW006077

*PESTS (2) EW000502 EW006012

*PETROLEUM INDUSTRY (1) EW003997

*PETROLEUM SPILLS (1) EW005959

*PH (1) EW002553

PH (1) EW006044

*PHENOL (1) EW003977

PH METERS (1) EW006044

PHOSPHATES (1) EW003996

*PHOSPHORUS (2) EW005082 EW005931

PHOSPHORUS (1) EW005934

PHYSICAL SCIENCES (1) EW002051

*PHYSICS (1) EW002284

PHYSIOLOGY (1) EW006289

*PILOT PROJECTS (2) EW000502 EW006024

PIPELINE TRANSPORTATION (1) EW006063
*PIPE LININGS (2) EW002081 EW006171

*PIPES (18) EW002081 EW002092 EW002093 EW002173 EW003880 EW003885 EW003913
EW003915 EW003916 EW005690 EW005722 EW005799 EW005801 EW005975 EW006023
EW006061 EW006104 EW006171

PIPES (3) EW003966 EW005723 EW005822

*PLANKTON (1) EW005988

*PLANKTON ANALYSIS (1) EW005988

*PLANNING (28) EW003857 EW004902 EW005078 EW005716 EW005724 EW005801 EW005834
EW005839 EW005891 EW005895 EW005907 EW005932 EW005943 EW005978 EW005982
EW006021 EW006053 EW006093 EW006094 EW006113 EW006117 EW006120 EW006125
EW006141 EW006170 EW006174 EW006206 EW006210

PLANNING (15) EW003927 EW005822 EW005836 EW005884 EW005889 EW005893 EW005904
EW005905 EW005936 EW005938 EW006063 EW006083 EW006112 EW006150 EW006211

*PLANT DESIGN (1) EW005967

PLANT DESIGN (1) EW006193

PLANT DISEASES (1) EW006012

PLANT MANAGEMENT (1) EW005946

*PLANT OPERATIONS (1) EW006136

PLANT PERFORMANCE (1) EW006119

PLANT RESIDUES (1) EW006062

*PLASTIC PIPES (1) EW002092

PLASTIC PIPES (1) EW006171

*PLUMBING (2) EW003050 EW003916

PLUMBING (1) EW003855

*PNEUMATICS (1) EW005999

PNEUMATIC TOOLS (1) EW005800

*POINT DISCHARGE (1) EW005952

*POINT POLLUTION (1) EW005938

*POINT SOURCE POLLUTION (5) EW006269 EW006270 EW006271 EW006273 EW006275

POLAROGRAPHY (1) EW006002

*POLICIES (1) EW005701

POLICIES (1) EW003853

*POLICY (5) EW002048 EW005838 EW005839 EW005944 EW006210

POLICY (4) EW005842 EW005843 EW005901 EW005909

*POLICY FORMATION (3) EW003479 EW003572 EW005937
POLICY FORMATION (2) EW005970 EW006021

POLITICS (1) EW005937

POLLUTANT DISTRIBUTION (1) EW006070

*POLLUTANTS (4) EW006001 EW006069 EW006070 EW006330

POLLUTANTS (4) EW005971 EW006014 EW006326 EW006327

*POLLUTION (26) EW002050 EW002052 EW002281 EW002415 EW003031 EW003057 EW003853
EW003927 EW005148 EW005812 EW005870 EW005871 EW006005 EW006016 EW006041
EW006042 EW006089 EW006091 EW006108 EW006287 EW006290 EW006321 EW006328
EW006337 EW006343 EW006344

POLLUTION (31) EW002927 EW002936 EW003050 EW003068 EW003357 EW003562 EW003828
EW003829 EW003852 EW003859 EW003872 EW003873 EW003874 EW003875 EW003881
EW003883 EW003998 EW004038 EW005925 EW005989 EW005998 EW006044 EW006083
EW006086 EW006090 EW006288 EW006289 EW006310 EW006318 EW006319 EW006342

*POLLUTION CONTROL (15) EW005148 EW005817 EW005840 EW005841 EW005905 EW005938 EW005973
EW005974 EW006053 EW006066 EW006084 EW006145 EW006180 EW006267 EW006343

POLLUTION CONTROL (20) EW005717 EW005718 EW005721 EW005722 EW005795 EW005836 EW005838
EW005960 EW005972 EW005987 EW006001 EW006038 EW006055 EW006056 EW006152
EW006170 EW006310 EW006321 EW006342 EW006344

*POLLUTION CONTROL TECHNIQUES (1) EW006066

*POLLUTION ENGINEERING (1) EW006023

POLLUTION PERMITS (1) EW006115

*POLYCHLORINATED BIPHENYLS (1) EW006080

*POPULATION (1) EW002049

*POST SECONDARY EDUCATION (57) EW002048 EW002049 EW002050 EW002051 EW002052 EW002053 EW002173
EW002282 EW002283 EW002284 EW002285 EW002449 EW002550 EW002551 EW002552
EW002553 EW003181 EW003366 EW003924 EW003925 EW005800 EW005879 EW005881
EW005883 EW005893 EW005918 EW005919 EW005941 EW005942 EW006017 EW006018
EW006037 EW006038 EW006039 EW006040 EW006041 EW006042 EW006043 EW006100
EW006150 EW006152 EW006180 EW006192 EW006193 EW006194 EW006196 EW006198
EW006199 EW006200 EW006245 EW006246 EW006247 EW006249 EW006268 EW006289
EW006291 EW006380

POST SECONDARY EDUCATION (26) EW002174 EW002281 EW002554 EW003031 EW003270 EW003923 EW003965
EW003966 EW003996 EW003997 EW003998 EW005880 EW006003 EW006007 EW006008
EW006009 EW006010 EW006011 EW006019 EW006067 EW006068 EW006151 EW006190
EW006191 EW006195 EW006197

POTABLE WATER (3) EW005914 EW006079 EW006099

*POTASSIUM PERMANGANATE (1) EW003870

POWER GENERATORS (1) EW003882

POWER PLANTS (1) EW005968

POWER TOOLS	(1)	EW005800				
*PRECAST CONCRETE BOXES	(1)	EW006173				
PRECIPITATION	(2)	EW003998	EW005924			
*PRELIMINARY TREATMENT	(1)	EW005853				
PRESERVATION	(1)	EW006154				
*PRESSURE	(3)	EW002284	EW002285	EW006050		
*PRESSURE LINES	(1)	EW005986				
*PRESSURE SEWERS	(1)	EW006175				
*PRETREATMENT	(2)	EW006100	EW006107			
PRETREATMENT	(2)	EW003856	EW005720			
*PRETREATMENT STANDARDS	(4)	EW006269	EW006270	EW006271	EW006275	
PRETREATMENT STANDARDS	(1)	EW005935				
PREVENTIVE HEALTH	(1)	EW006153				
*PRIMARY TREATMENT	(2)	EW006196	EW006197			
PROBLEM ANALYSIS	(1)	EW006094				
PROBLEM IDENTIFICATION	(1)	EW006119				
*PROBLEMS	(1)	EW006116				
*PROBLEM SOLVING	(2)	EW005798	EW005836			
PROBLEM SOLVING	(5)	EW005838	EW005841	EW005932	EW005970	EW006021
*PROCESS CONTROL	(5)	EW002550	EW002551	EW002552	EW002554	EW005906
*PROCESS CONTROLS	(3)	EW005946	EW005976	EW005977		
PROCESS STABILITY	(1)	EW006122				
*PRODUCTION	(1)	EW006169				
*PRODUCTION TECHNIQUES	(1)	EW006173				
PRODUCTION TECHNIQUES	(1)	EW005843				
*PRODUCTIVITY	(3)	EW005887	EW005892	EW006112		
*PROFESSIONAL DEVELOPMENT	(1)	EW003049				
*PROGRAM DESCRIPTIONS	(1)	EW005795				
PROGRAM DESCRIPTIONS	(1)	EW005888				
*PROGRAM DEVELOPMENT	(3)	EW006100	EW006210	EW006211		
*PROGRAMED INSTRUCTION	(5)	EW006007	EW006008	EW006009	EW006010	EW006011
*PROGRAM EVALUATION	(4)	EW005890	EW005892	EW005961	EW005904	

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PROGRAM EVALUATION (1) EW005885
*PROGRAM PLANNING (2) EW005943 EW005944
PROGRAM PLANNING (2) EW005905 EW005942
*PROGRAM REVIEWS (1) EW005944
*PROJECT DESIGN (1) EW006023
*PROJECTIONS (2) EW005716 EW005960
PROJECTS (2) EW005901 EW006211
*PROPOSALS (2) EW005889 EW005893
*PROTECTIVE EQUIPMENT (2) EW003925 EW006147
PROTEIN (1) EW005953
PSYCHOLOGY (2) EW002051 EW005941
PUBLIC ADMINISTRATION (1) EW005888
*PUBLIC HEALTH (19) EW002412 EW002415 EW003050 EW003859 EW005902 EW005911 EW005912 EW005914 EW005915 EW005916 EW005997 EW006000 EW006003 EW006017 EW006072 EW006138 EW006178 EW006179 EW006267
PUBLIC HEALTH (14) EW003068 EW003562 EW003724 EW003852 EW003870 EW003917 EW005696 EW005702 EW005926 EW005927 EW005958 EW006006 EW006099 EW006150
PUBLIC INFORMATION (1) EW005936
*PUBLIC INVOLVEMENT (1) EW006210
PUBLIC INVOLVEMENT (1) EW006211
*PUBLIC OPINION (1) EW005870
PUBLIC OPINION (2) EW003479 EW003572
*PUBLIC PARTICIPATION (8) EW005819 EW005871 EW005885 EW005888 EW006021 EW006174 EW006210 EW006211
*PUBLIC POLICY (3) EW003479 EW003572 EW004038
PUBLIC POLICY (3) EW003357 EW005937 EW005960
*PUBLIC PROGRAMS (1) EW005885
PUBLIC RELATIONS (2) EW003572 EW005819
*PUBLIC SAFETY (1) EW005982
*PUBLIC SERVICES (1) EW005887
PULP AND PAPER INDUSTRY (1) EW003997
*PULP MILLS (1) EW006270
*PUMPS (5) EW003914 EW005967 EW005986 EW006036 EW006102
PUMPS (2) EW003966 EW005980

*PUMP STATIONS (1) EW005980
PURIFICATION (1) EW005817

*PYROLYSIS (1) EW003875

*QUALITATIVE ANALYSIS (1) EW005983

*QUALITY CONTROL (5) EW005834 EW006140 EW006248 EW006250 EW006338

QUALITY CONTROL (8) EW006099 EW006190 EW006191 EW006193 EW006194 EW006195 EW006197 EW006199

QUALITY CRITERIA (1) EW006268

QUALITY OF LIFE (2) EW006015 EW006016

*QUANTITATIVE ANALYSIS (1) EW006018

*RADIATION (1) EW005997

RADIATION (1) EW006287

*RADIOACTIVE CONTAMINANTS (1) EW006079

RADIOACTIVE ISOTOPES (2) EW006085 EW006087

*RADIOCHEMISTRY (1) EW006079

*RADIONUCLIDES (2) EW005997 EW006079

RADIONUCLIDES (2) EW006001 EW006380

*RATES (2) EW005909 EW006109

*RATE STRUCTURES (1) EW006114

*RECOMMENDATIONS (6) EW005689 EW005838 EW005839 EW005901 EW005904 EW006053

RECOMMENDATIONS (3) EW005797 EW005842 EW006202

*RECOMMENDED STANDARDS (1) EW006134

RECORDS (2) EW001664 EW005880

*RECREATION (1) EW004902

*RECYCLING (11) EW002175 EW002927 EW003859 EW003879 EW003881 EW005908 EW005953 EW005981 EW006018 EW006124 EW006288

RECYCLING (11) EW003855 EW003878 EW003928 EW005660 EW005875 EW005925 EW006088 EW006318 EW006319 EW006321 EW006344

*REFERENCE MANUALS (1) EW005817

*REFERENCE MATERIALS (2) EW005899 EW005933

REFERENCE MATERIALS (3) EW005511 EW005876 EW006380

REGIONAL CHARACTERISTICS (1) EW005876

REGIONAL DEVELOPMENT (1) EW006094

REGIONAL MANAGEMENT (1) EW005895
*REGIONAL PLANNING (2) EW003479 EW006015

REGIONAL PLANNING (1) EW005895

*REGULATIONS (16) EW005696 EW005701 EW005702 EW005819 EW005840 EW005841 EW005902 EW006055 EW006056 EW006067 EW006098 EW006113 EW006147 EW006169 EW006184 EW006290

REGULATIONS (12) EW002080 EW002086 EW003714 EW005690 EW005838 EW005839 EW005938 EW006053 EW006061 EW006088 EW006115 EW006177

*REHABILITATION (1) EW005717

*REMOTE SENSING (1) EW006091

REMOTE SENSING (1) EW006337

*REMOVAL TECHNIQUES (1) EW006090

*REPAIR (3) EW005918 EW005919 EW005921

*REPORTS (2) EW003562 EW005903

REPORTS (1) EW005843

REPORT WRITING (1) EW005886

REQUIREMENTS (1) EW005843

REQULATIONS (1) EW001664

*RESEARCH (15) EW003057 EW003068 EW003829 EW003859 EW003877 EW005148 EW005870 EW005890 EW005904 EW005941 EW006087 EW006138 EW006139 EW006179 EW006265

RESEARCH (14) EW000502 EW002281 EW003562 EW003917 EW005716 EW005931 EW006033 EW006034 EW006065 EW006085 EW006090 EW006093 EW006094 EW006202

*RESEARCH DESIGN (2) EW005885 EW005888

*RESEARCH NEEDS (1) EW006014

RESEARCH NEEDS (1) EW006021

*RESEARCH PROGRAMS (1) EW005904

*RESEARCH REPORTS (16) EW005511 EW005513 EW005689 EW005794 EW005887 EW005953 EW005972 EW005973 EW005974 EW006005 EW006020 EW006069 EW006069 EW006070 EW006150 EW006170

RESEARCH REPORTS (8) EW005795 EW005911 EW005912 EW005913 EW005914 EW006003 EW006015 EW006016

*RESEARCH REVIEWS (10) EW006014 EW006095 EW006318 EW006319 EW006321 EW006326 EW006327 EW006328 EW006330 EW006341

RESEARCH REVIEWS (2) EW005888 EW005934

*RESERVOIRS (4) EW004902 EW005968 EW006150 EW006151

RESERVOIRS (1) EW006152
*RESIDENCES (1) EW006209
*RESIDENCE TIME (1) EW006121
*RESIDENTIAL USE (1) EW005876
*RESOURCE CONSERVATION AND RECOVERY ACT (2) EW006055 EW006056
RESOURCE CONSERVATION AND RECOVERY ACT (3) EW005812 EW005819 EW005841
*RESOURCE GUIDES (1) EW005899
*RESOURCE MANAGEMENT (3) EW002051 EW006055 EW006056
*RESOURCE MATERIALS (1) EW006210
RESOURCE MATERIALS (1) EW003927
*RESOURCE RECOVERY (7) EW002927 EW005925 EW005949 EW005953 EW005965 EW006018 EW006288
RESOURCE RECOVERY (3) EW005696 EW005836 EW006066

*RESPIRATORS (1) EW006051
*REUSE FACILITIES (1) EW005981
REVENUE REQUIREMENTS (1) EW001664
*REVERSE OSMOSIS (1) EW006172
*RISK ASSESSMENT (1) EW006179
*RIVERS (2) EW006060 EW006150
RIVERS (3) EW003828 EW006039 EW006152
RUNOFF WATERS (1) EW005932
*RURAL AREAS (1) EW005910
SAFE DRINKING WATER ACT (1) EW005819
*SAFETY (20) EW002086 EW002174 EW003923 EW003924 EW003925 EW003926 EW005502 EW005800 EW005926 EW005927 EW005982 EW006004 EW006006 EW006022 EW006037 EW006051 EW006052 EW006077 EW006139 EW006147
SAFETY (10) EW003856 EW003881 EW005723 EW005880 EW006136 EW006153 EW006194 EW006289 EW006337 EW006338
*SAFETY EDUCATION (1) EW006037
SAFETY ENGINEERS (1) EW006004
*SAFETY EQUIPMENT (2) EW006051 EW006052
SAFETY EQUIPMENT (1) EW006077
*SAFETY MANAGEMENT (1) EW006004
SAFETY PROCEDURES (1) EW006199

*SAFETY RULES	(2)	EW005502 EW005800
*SALINITY	(1)	EW002448
*SAMPLING	(6)	EW003828 EW005854 EW006001 EW006092 EW006247 EW006330
SAMPLING	(5)	EW002449 EW005929 EW005971 EW005989 EW006018
*SAMPLING TECHNIQUES	(1)	EW003829
*SAND FILTERS	(1)	EW006195
*SANITARY ENGINEERING	(1)	EW005714
SANITARY ENGINEERING	(1)	EW005981
*SANITARY LANDFILLS	(1)	EW006267
*SANITARY SEWERS	(1)	EW006173
*SANITATION	(5)	EW003050 EW003055 EW003965 EW005883 EW005953
SANITATION	(1)	EW003049
SCHEDULING	(1)	EW006112
*SCIENCES	(8)	EW002048 EW002051 EW002052 EW002053 EW005937 EW005972 EW005973 EW005974
SCIENCES	(1)	EW003366
*SEALED DIGESTION CHAMBERS	(1)	EW006123
*SECONDARY TREATMENT	(1)	EW006197
SECONDARY TREATMENT	(2)	EW005720 EW006190
SEDIMENTATION	(1)	EW003031
*SEDIMENTATION BASINS	(1)	EW006195
SEDIMENTS	(1)	EW006042
*SEMINAR PROCEEDINGS	(5)	EW006061 EW006062 EW006063 EW006064 EW006099
*SEMINARS	(2)	EW002175 EW002176
SENSORS	(1)	EW005946
*SENSORY ASSESSMENT	(1)	EW006003
SEPARATION PROCESSES	(1)	EW003997
SEPTIC LEACH FIELDS	(1)	EW005985
*SEPTIC TANKS	(1)	EW003055
*SETTLEABLE SOLIDS	(1)	EW006048
*SETTLING TANKS	(1)	EW005964
*SEWAGE	(18)	EW003996 EW005817 EW005935 EW005953 EW005980 EW005985 EW005990 EW006068 EW006085 EW006095 EW006102 EW006108 EW006177 EW006332 EW006333 EW006334 EW006341 EW006342

SEWAGE (8) EW003031 EW005967 EW006043 EW006087 EW006096 EW006097 EW006180 EW006196
*SEWAGE COLLECTION (1) EW005986
*SEWAGE DISPOSAL (2) EW005660 EW006086
*SEWAGE SLUDGE (2) EW006088 EW006267
SEWAGE SLUDGE (1) EW005928
SEWAGE SYSTEMS (1) EW005899
*SEWER FLOW (1) EW005952
*SEWERS (7) EW003055 EW003714 EW005690 EW005795 EW005801 EW005952 EW006173
SEWERS (4) EW005822 EW005836 EW005853 EW006143
*SEWER SYSTEMS (1) EW006175
*SHIPPING (1) EW005082
SILVICULTURE (1) EW005934
SIMULATION MODELS (1) EW005928
SIMULATIONS (1) EW006076
SITE ANALYSIS (1) EW005513
*SITE SELECTION (3) EW005724 EW006267 EW006337
SITING (1) EW005843
SKILL DEVELOPMENT (4) EW005879 EW005880 EW005881 EW006210
*SLIDES (5) EW002282 EW002283 EW002284 EW002285 EW002553
*SLUDGE (17) EW003270 EW003714 EW003875 EW003996 EW005817 EW005950 EW005979 EW006088 EW006100 EW006108 EW006118 EW006120 EW006121 EW006124 EW006177 EW006310 EW006321
SLUDGE (13) EW003031 EW003856 EW003859 EW005928 EW005951 EW005969 EW006086 EW006122 EW006180 EW006196 EW006318 EW006332 EW006341
*SLUDGE BED SYSTEMS (1) EW006122
*SLUDGE DIGESTER (1) EW005969
*SLUDGE DISPOSAL (5) EW006088 EW006118 EW006332 EW006333 EW006334
SLUDGE DISPOSAL (1) EW006072
SLUDGE HANDLING (1) EW006110
*SLUDGE MANAGEMENT (1) EW005928
SLUDGE QUALITY (1) EW005977
SLUDGE TREATMENT (2) EW006110 EW006341
SOCIAL ATTITUDES (1) EW006016

SOCIAL ENVIRONMENT	(1)	EW006015					
*SOCIAL FACTORS	(1)	EW005937					
*SOCIAL IMPACT ASSESSMENT	(1)	EW006015					
*SOCIAL INDICATORS	(1)	EW006015					
*SOCIAL INFLUENCES	(1)	EW006016					
SOCIAL PROBLEMS	(1)	EW006016					
SOCIAL SCIENCE RESEARCH	(2)	EW006015	EW006016				
SOCIAL VALUES	(1)	EW006094					
*SOCIETY	(1)	EW002052					
*SOCIOECONOMIC INFLUENCES	(1)	EW006343					
SOCIOECONOMIC INFLUENCES	(1)	EW006344					
SOCIOLOGY	(1)	EW006015					
SOIL	(1)	EW006041					
*SOIL CONSERVATION	(2)	EW006143	EW006145				
SOIL CONSERVATION SERVICE	(1)	EW005901					
SOIL INCORPORATION	(1)	EW003055					
*SOIL MOVEMENTS	(1)	EW005076					
*SOILS	(2)	EW003965	EW005078				
SOILS	(1)	EW006124					
*SOLAR ENERGY	(1)	EW006019					
SOLIDS	(1)	EW006048					
SOLIDS DISPOSAL	(1)	EW006062					
SOLIDS RETENTION TIME	(1)	EW006122					
*SOLID WASTES	(6)	EW002927	EW003881	EW005881	EW005925	EW006287	EW006344
SOLID WASTES	(3)	EW006005	EW006055	EW006056			
*SOLUTE TRANSPORT	(1)	EW006142					
*SOURCE PERFORMANCE STANDARDS	(3)	EW006269	EW006270	EW006271			
*SPECTROPHOTOMETERS	(1)	EW005994					
*SPECTROPHOTOMETRY	(1)	EW006123					
SPECTROPHOTOMETRY	(1)	EW005983					
SPECTROSCOPY	(2)	EW006002	EW006034				
SPILL CONTROL	(1)	EW005927					

SPILL PREVENTION (1) EW006063
*SPILLS (4) EW002174 EW006063 EW006076 EW006077
SPILLS (1) EW006083
*SPILLWAYS (1) EW005723
*STABILIZATION LAGOONS (1) EW006198
*STABILIZATION PONDS (1) EW006258
*STAGNATING WATER (1) EW005822
*STANDARD METHODS (1) EW006123
*STANDARDS (23) EW002080 EW002081 EW002082 EW002086 EW002090 EW002091 EW002092 EW002093 EW003852 EW003879 EW003883 EW005148 EW005797 EW006036 EW006169 EW006190 EW006191 EW006192 EW006269 EW006270 EW006271 EW006273 EW006275
STANDARDS (5) EW005721 EW005840 EW005910 EW005999 EW006150
*START-UP PROCEDURES (1) EW003856
*STATE OF THE ART REVIEWS (8) EW005892 EW005934 EW005941 EW005972 EW005974 EW006015 EW006021 EW006202
STATE OF THE ART REVIEWS (4) EW005888 EW005891 EW005973 EW006040
STATE ROLE (1) EW005797
*STATISTICS (1) EW006119
STATISTICS (3) EW006018 EW006077 EW006151
*STEAM ELECTRIC INDUSTRY (1) EW006273
*STERILE TECHNIQUES (1) EW006248
*STOCHASTICS (1) EW006151
*STORAGE (1) EW006141
STORAGE (1) EW006006
*STORM SEWERS (1) EW006173
*STORMWATER (2) EW005822 EW006265
*STREAMS (1) EW006060
*STRUCTURAL ENGINEERING (1) EW003965
*SUBMIRSIBLE PUMPS (1) EW005967
*SUBURBAN AREAS (1) EW006176
SULFUR (1) EW003859
SUPERFUND (2) EW005840 EW005841
*SUPERVISION (1) EW006037
*SURFACE RUNOFF (2) EW005822 EW006265

*SURVEYING	(1)	EW003965
*SURVEYS	(5)	EW003049 EW003828 EW005870 EW006109 EW006115
SURVEYS	(1)	EW002173
*SUSPENDED SOLIDS	(1)	EW006048
SUSPENDED SOLIDS	(1)	EW006319
SWIMMING POOLS	(1)	EW006200
*SYMPOSIA	(1)	EW006060
SYMPOSIA	(1)	EW006012
*SYNTHETIC FUELS	(1)	EW005843
*SYSTEM DESIGN	(1)	EW006206
*SYSTEMS ANALYSIS	(1)	EW005907
*TANK CARS	(2)	EW006243 EW006244
*TANKS	(2)	EW005689 EW005820
*TANK TRUCKS	(2)	EW006243 EW006244
*TASK ANALYSIS	(2)	EW003857 EW003884
*TASTE	(2)	EW002176 EW006003
*TEACHER EDUCATION	(2)	EW006129 EW006291
*TEACHING GUIDES	(11)	EW003923 EW005879 EW005880 EW005881 EW006007 EW006008 EW006009 EW006010 EW006011 EW006130 EW006291
TEACHING GUIDES	(1)	EW005885
*TEACHING METHODS	(1)	EW005942
TEACHING METHODS	(1)	EW005941
TECHNICAL ASSISTANCE	(2)	EW005511 EW005513
TECHNICAL MATHEMATICS	(1)	EW006013
*TECHNICAL REPORTS	(1)	EW006338
TECHNICIANS	(4)	EW003923 EW003924 EW003925 EW003926
*TECHNOLOGICAL ADVANCEMENT	(2)	EW005882 EW006171
TECHNOLOGICAL ADVANCEMENT	(1)	EW005794
*TECHNOLOGICAL ADVANCEMENTS	(5)	EW005721 EW005722 EW005899 EW005971 EW006202
TECHNOLOGICAL ADVANCEMENTS	(3)	EW005972 EW005973 EW005974
*TECHNOLOGY	(19)	EW000412 EW002051 EW002052 EW002053 EW002448 EW002927 EW003562 EW003868 EW003871 EW003875 EW003881 EW003911 EW003912 EW003929 EW003930 EW003931 EW003965 EW005997 EW006151
TECHNOLOGY	(13)	EW003853 EW003855 EW003859 EW003874 EW003883 EW003885 EW003910

EW003916 EW003917 EW005511 EW005817 EW005933 EW005998
*TECHNOLOGY TRANSFER (1) EW004963
*TEMPERATURE (1) EW002283
TERATOGENIC EFFECTS (1) EW006153
*TERATOGENS (2) EW005926 EW005927
TERTIARY SYSTEMS (1) EW006121
*TERTIARY TREATMENT (1) EW005719
*TESTING (1) EW006001
TESTING (3) EW005696 EW005702 EW005971
*TEXTBOOKS (11) EW002048 EW005879 EW005880 EW005881 EW006017 EW006038 EW006043 EW006100 EW006151 EW006152 EW006180
TEXTBOOKS (2) EW005999 EW006003
*THAWING (1) EW006104
*THEOMODYNAMICS (1) EW005928
THERMOMETERS (1) EW002283
*TIMBER MANAGEMENT (1) EW005076
*TIME (1) EW003928
*TIMESHARE SYSTEMS (1) EW005906
TITRATION (1) EW006123
*TOOLS (1) EW005800
TOTAL SOLIDS (1) EW006044
*TOXIC CHEMICALS (1) EW005812
TOXIC CHEMICALS (1) EW006153

*TOXIC GASES (2) EW006051 EW006153
*TOXICITY (4) EW005926 EW005958 EW006080 EW006153
TOXICITY (2) EW005987 EW006083
*TOXIC METALS (1) EW006002
*TOXICOLOGY (8) EW005702 EW006017 EW006038 EW006179 EW006289 EW006327 EW006328 EW006380
TOXICOLOGY (2) EW006002 EW006072
*TOXIC SUBSTANCES (19) EW005082 EW005502 EW005696 EW005702 EW005842 EW005902 EW005926 EW005927 EW005958 EW005987 EW006017 EW006069 EW006070 EW006268 EW006287 EW006326 EW006327 EW006328 EW006380

TOXIC SUBSTANCES (3) EW005812 EW005840 EW006005
*TOXIC SUBSTANCES CONTROL ACT (2) EW005696 EW005902
TOXIC SUBSTANCES CONTROL ACT (1) EW005702
*TOXIC WASTES (2) EW005821 EW006184
*TRACE METALS (2) EW003972 EW006002
TRACE METALS (1) EW006124
*TRACER METHODS (1) EW005950
*TRAINING (3) EW005891 EW006207 EW006291
*TRAINING MANUALS (2) EW005885 EW005930
TRAINING MATERIALS (1) EW005797
*TRAINING PROGRAMS (9) EW005797 EW005798 EW005879 EW005880 EW005881 EW005886 EW005889 EW005890 EW005892
TRAINING PROGRAMS (1) EW005893
*TRANSPORTATION (6) EW003965 EW006006 EW006063 EW006076 EW006077 EW006184
TRANSPORTATION (1) EW006169
*TREATMENT (1) EW006184
TREATMENT TECHNOLOGY (1) EW006177
TRICKLING FILTERS (2) EW003856 EW006197

*TROUBLE SHOOTING (1) EW005853
*TROUBLESHOOTING (1) EW005930
TROUBLESHOOTING (1) EW006136
TUMORS (1) EW006153
*TURNAROUND TIME (1) EW005906
UNDERGROUND DISPOSAL (1) EW003055
*UNIT OPERATIONS (1) EW003998
*UNIVERSITIES (1) EW006116
*URBAN AREAS (6) EW005903 EW005932 EW005978 EW006125 EW006170 EW006211
*URBAN ENVIRONMENT (2) EW005932 EW006265
*URBANIZATION (1) EW005932
URBAN PLANNING (1) EW006125
URBAN STUDIES (1) EW006265

*UTILITIES	(14)	EW000412 EW003068 EW003871 EW003880 EW003885 EW003913 EW003914 EW006013 EW006064 EW006103 EW006109 EW006206 EW006208 EW006210
UTILITIES	(25)	EW002550 EW002551 EW003049 EW003050 EW003714 EW003856 EW003868 EW003869 EW003870 EW003872 EW003873 EW003874 EW003877 EW003882 EW003910 EW003911 EW003912 EW003916 EW003917 EW005935 EW005975 EW006024 EW006061 EW006102 EW006204
*VACUUM WASTEWATER COLLECTION	(1)	EW005948
*VALUES	(1)	EW005870
*VALVE ENGINEERING	(1)	EW006111
*VALVES	(3)	EW002082 EW005733 EW006246
VALVES	(2)	EW002081 EW003966
*VELOCITY MEASUREMENTS	(1)	EW005952
*VIDEOCASSETTES	(8)	EW006044 EW006045 EW006046 EW006048 EW006049 EW006050 EW006051 EW006052
VIDEOCASSETTES	(2)	EW006248 EW006250
*VIROLOGY	(1)	EW006043
*VIRUSES	(1)	EW006043
*WASTE DISPOSAL	(52)	EW003055 EW003068 EW003270 EW003562 EW003714 EW003871 EW003875 EW003881 EW003927 EW003928 EW003996 EW003997 EW003998 EW005660 EW005812 EW005821 EW005841 EW005842 EW005925 EW005928 EW005935 EW005953 EW005964 EW005969 EW005985 EW005986 EW006055 EW006056 EW006062 EW006068 EW006083 EW006084 EW006086 EW006089 EW006100 EW006107 EW006120 EW006124 EW006169 EW006184 EW006198 EW006267 EW006275 EW006290 EW006310 EW006332 EW006333 EW006334 EW006337 EW006341 EW006343 EW006344
WASTE DISPOSAL	(19)	EW003050 EW003057 EW003856 EW003872 EW003873 EW003874 EW003879 EW003884 EW003931 EW005696 EW005881 EW005883 EW005949 EW006018 EW006066 EW006087 EW006090 EW006121 EW006180
*WASTE MANAGEMENT	(1)	EW005812
*WASTES	(2)	EW006018 EW006327
WASTES	(4)	EW005925 EW006169 EW006290 EW006326
*WASTE TREATMENT	(1)	EW005925
*WASTEWATER	(2)	EW005948 EW005952
WASTEWATER	(2)	EW005871 EW005883
*WASTEWATER COLLECTION	(10)	EW003871 EW003873 EW005690 EW005795 EW005801 EW005948 EW005980 EW005986 EW006108 EW006175
*WASTEWATER DISPOSAL	(1)	EW006072
*WASTEWATER SYSTEMS	(1)	EW006110
*WASTEWATER TREATMENT	(142)	EW001664 EW002552 EW002553 EW002936 EW003055 EW003057 EW003068 EW003270 EW003562 EW003714 EW003856 EW003857 EW003872 EW003873 EW003874

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EW006275 EW006288 EW006291 EW006309 EW006310 EW006318 EW006319 EW006321
EW006332 EW006333 EW006334 EW006338 EW006341 EW006342 EW006343

WASTEWATER TREATMENT (10) EW003871 EW005903 EW005924 EW005974 EW006043 EW006047 EW006050
EW006051 EW006068 EW006084

*WATER (1) EW005924

WATER (2) EW006041 EW006250

*WATER ANALYSIS (9) EW002449 EW003724 EW003973 EW003974 EW003975 EW003976 EW003977
EW003978 EW006040

WATER ANALYSIS (3) EW003823 EW003972 EW006097

*WATER CHARACTERISTICS (1) EW002176

*WATER COLLECTION (1) EW005822

*WATER CONDUITS (1) EW005965

*WATER CONSERVATION (4) EW003878 EW005876 EW006145 EW006209

WATER CONSERVATION (1) EW005716

*WATER CONSUMPTION (1) EW006176

*WATER COSTS (1) EW006103

*WATER CUSTOMER INFORMATION (1) EW006064

*WATER DISTILLATION (1) EW002448

*WATER DISTRIBUTION (14) EW002173 EW003050 EW003885 EW003910 EW003911 EW003912 EW003913
EW003914 EW003915 EW005799 EW005903 EW006068 EW006104 EW006205

WATER DISTRIBUTION (1) EW005691

WATER HARDNESS (1) EW006020

*WATER HYACINTH (1) EW005794

*WATER MAINS (2) EW005975 EW006104

*WATER MANAGEMENT (1) EW006209

*WATER MEASUREMENT (1) EW006040

*WATER METERS	(3)	EW002090 EW002091 EW002173
*WATER PIPES	(1)	EW003880
WATER PIPES	(1)	EW002092
*WATER POLICY	(1)	EW005716
*WATER POLLUTION	(22)	EW005842 EW005929 EW005934 EW005936 EW005959 EW006038 EW006069 EW006070 EW006080 EW006098 EW006140 EW006145 EW006179 EW006268 EW006287 EW006288 EW006326 EW006327 EW006328 EW006330 EW006341 EW006344
WATER POLLUTION	(19)	EW005083 EW005924 EW005953 EW005972 EW005973 EW006014 EW006042 EW006072 EW006083 EW006088 EW006115 EW006178 EW006309 EW006318 EW006321 EW006332 EW006333 EW006342 EW006343
*WATER POLLUTION CONTROL	(54)	EW002050 EW002281 EW002415 EW002552 EW002936 EW003031 EW003050 EW003057 EW003068 EW003357 EW003479 EW003562 EW003572 EW003828 EW003829 EW003853 EW003856 EW003857 EW003859 EW003872 EW003876 EW003877 EW003878 EW003879 EW003884 EW003917 EW003998 EW005083 EW005817 EW005871 EW005931 EW005936 EW005967 EW005997 EW005998 EW006044 EW006045 EW006046 EW006047 EW006048 EW006049 EW006050 EW006051 EW006052 EW006065 EW006091 EW006125 EW006269 EW006270 EW006273 EW006275 EW006291 EW006338 EW006342
WATER POLLUTION CONTROL	(28)	EW000412 EW002052 EW003049 EW003181 EW003843 EW003852 EW003870 EW003871 EW003873 EW003874 EW003875 EW003882 EW003883 EW003927 EW003930 EW003997 EW004038 EW005938 EW005959 EW005980 EW005983 EW006000 EW006062 EW006074 EW006090 EW006271 EW006318 EW006319
*WATER POLLUTION CONTROL ACT	(1)	EW005905
*WATER PROBLEMS	(1)	EW005875
*WATER PROJECTS	(1)	EW005901
*WATER PUMPS	(1)	EW006036
*WATER QUALITY	(68)	EW002050 EW002175 EW002176 EW003181 EW003724 EW003828 EW003859 EW003870 EW003878 EW003883 EW005078 EW005082 EW005840 EW005843 EW005882 EW005905 EW005906 EW005910 EW005911 EW005912 EW005914 EW005915 EW005916 EW005931 EW005938 EW005944 EW005971 EW005975 EW005979 EW005983 EW005988 EW005989 EW005990 EW005991 EW005992 EW005993 EW005994 EW005995 EW005996 EW006003 EW006005 EW006020 EW006033 EW006034 EW006043 EW006044 EW006045 EW006046 EW006047 EW006048 EW006049 EW006050 EW006052 EW006065 EW006092 EW006099 EW006125 EW006129 EW006130 EW006145 EW006150 EW006152 EW006180 EW006247 EW006248 EW006249 EW006250 EW006268
WATER QUALITY	(44)	EW002281 EW002448 EW002936 EW003031 EW003050 EW003055 EW003057 EW003068 EW003852 EW003876 EW003877 EW003879 EW003880 EW003910 EW003911 EW003912 EW003927 EW004038 EW005083 EW005836 EW005838 EW005842 EW005913 EW005930 EW005932 EW005964 EW005976 EW006051 EW006061 EW006062 EW006098 EW006144 EW006190 EW006191 EW006192 EW006193 EW006194 EW006195 EW006196 EW006197 EW006198 EW006199 EW006200 EW006265
*WATER RATES	(8)	EW002173 EW003869 EW005691 EW005909 EW006103 EW006109 EW006114 EW006176
*WATER RECLAMATION	(1)	EW003878
*WATER RECREATION	(1)	EW004902
*WATER RESOURCES	(42)	EW000412 EW003057 EW003357 EW003479 EW003828 EW003843 EW003855

EW003859 EW003869 EW004902 EW004963 EW005078 EW005082 EW005716 EW005838
EW005839 EW005840 EW005871 EW005875 EW005895 EW005901 EW005908 EW005924
EW005932 EW005933 EW006015 EW006021 EW006023 EW006060 EW006063 EW006093
EW006094 EW006109 EW006141 EW006142 EW006150 EW006151 EW006152 EW006154
EW006172 EW006210 EW006211

WATER RESOURCES (11) EW003829 EW005083 EW005691 EW005843 EW005876 EW005953 EW005965
EW006033 EW006034 EW006140 EW006170

*WATER REUSE (2) EW002175 EW005981

WATER REUSE (1) EW005908

*WATERSHEDS (1) EW005078

WATERSHEDS (2) EW005932 EW006150

*WATER STORAGE (3) EW005820 EW005968 EW006174

*WATER SUPPLY (53) EW002082 EW002090 EW002091 EW002092 EW002093 EW002173 EW003050
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EW005724 EW005819 EW005820 EW005839 EW005842 EW005843 EW005875 EW005876
EW005883 EW005903 EW005908 EW005909 EW005911 EW005914 EW005916 EW005966
EW005968 EW005975 EW005978 EW005982 EW006036 EW006062 EW006063 EW006068
EW006098 EW006103 EW006104 EW006109 EW006114 EW006141 EW006143 EW006144
EW006172 EW006176 EW006179 EW006192 EW006250 EW006311

WATER SUPPLY (11) EW002080 EW003913 EW005714 EW005723 EW005838 EW005882 EW005895
EW005965 EW005997 EW006061 EW006065

*WATER SYSTEMS (3) EW006061 EW006109 EW006110

WATER SYSTEMS (1) EW005883

*WATER TANKS (1) EW005820

WATER TANKS (1) EW006036

*WATER TECHNOLOGY (1) EW005883

*WATER TREATMENT (63) EW000412 EW002080 EW002448 EW003049 EW003181 EW003724 EW003852
EW003868 EW003870 EW003872 EW003910 EW003911 EW003917 EW005714 EW005724
EW005797 EW005819 EW005882 EW005910 EW005911 EW005912 EW005913 EW005914
EW005916 EW005917 EW005918 EW005921 EW005922 EW005930 EW005935 EW005964
EW005966 EW005976 EW005997 EW006020 EW006061 EW006062 EW006064 EW006065
EW006068 EW006087 EW006097 EW006098 EW006099 EW006112 EW006171 EW006178
EW006192 EW006193 EW006194 EW006195 EW006199 EW006200 EW006204 EW006205
EW006206 EW006207 EW006208 EW006250 EW006311 EW006318 EW006319 EW006321

WATER TREATMENT (7) EW003912 EW005915 EW005919 EW006013 EW006039 EW006043 EW006084

*WATER TREATMENT OPERATORS (1) EW006013

*WATER USE (2) EW005876 EW005909

WATER USE (1) EW005716

*WATER UTILITIES (5) EW002086 EW005799 EW005907 EW006113 EW006209

*WATER UTILITY OPERATORS (1) EW005798

*WATER WELLS (2) EW004963 EW006144

WATER YIELD (1) EW005078

*WEEDS	(1)	EW006012
WEEDS	(1)	EW000502
*WELL DRILLING	(1)	EW004963
*WETLANDS	(1)	EW005719
WILDLIFE	(1)	EW005719
WISCONSIN	(1)	EW005721
*WOOD INDUSTRY	(1)	EW006269
WOOD WORK	(1)	EW006154
*WORKBOOKS	(1)	EW005885
*WORKSHOPS	(1)	EW005893
*WRITING	(1)	EW005889
WRITING	(1)	EW005893
*YEAST	(1)	EW005953